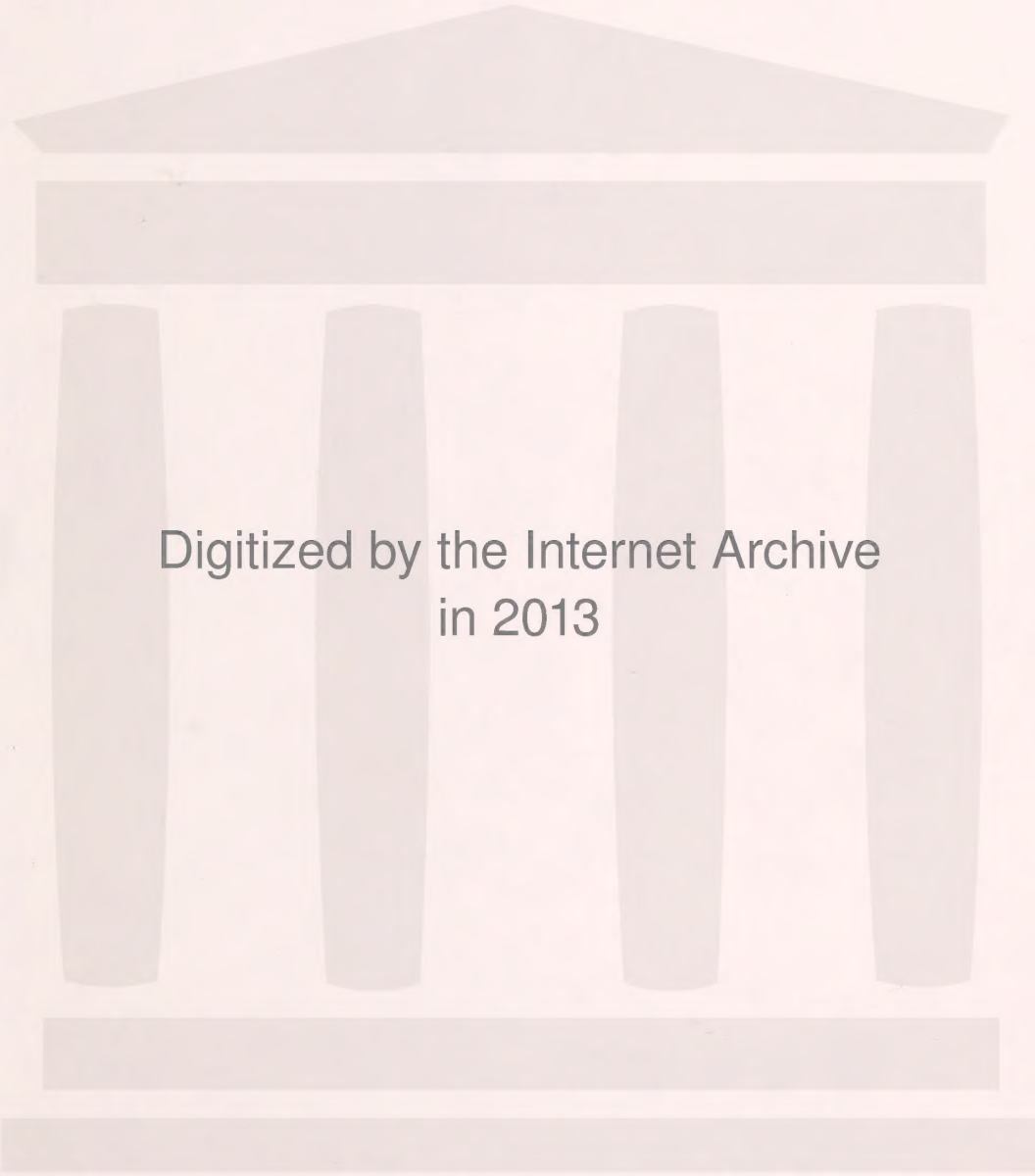




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NEWSLETTER

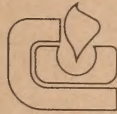
INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 1

August 15, 1979



AUG 15 1979



CLEMSON
UNIVERSITY

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM

August 15, 1979

CLEMSON UNIVERSITY FACULTY AND STAFF:

Please join us at the Clemson House in welcoming our new faculty and staff into the Clemson family on Thursday evening, August twenty-third, from seven-thirty to ten.

We, as newcomers ourselves, are looking forward to greeting you.

Bill and Pat Atchley

RESOLUTION TO REMOVE BARRICADES DEFEATED

A resolution to remove traffic barricades on Calhoun Drive and South Palmetto Boulevard was defeated by a 9-1 vote in a July 26 meeting of the University Traffic and Parking Committee.

According to committee chairman Bill Pace, the vote was prompted by a petition bearing the names of more than 200 University employees. The petitioners called for removal of the barricades to save energy by reducing driving distances in and around campus. They argued that pedestrian safety could be maintained

through the use of speed breakers, cross-walk lights and stiffer traffic fines.

In rejecting the proposal, the committee noted that "the amount of fuel saved does not appear to be as significant as the decrease in pedestrian safety. . .". The committee's findings were presented to the president's cabinet which approved the recommendation to retain the barricades.

The traffic barricades were first erected in 1973 in response to a student senate request for the creation of a pedestrian campus.

A

AN OPEN LETTER TO MEMBERS OF THE FACULTY FROM PRESIDENT ATCHLEY

Requisitions for the Bookshelves in the President's Office

As I have expressed to many of you, it is my intention to keep in close touch with the faculty. One means of doing this would be to have books authored by members of the faculty displayed in a prominent manner on the bookshelves in my office. I am therefore taking this opportunity to ask that those members of the faculty who have authored books please furnish me with a copy of their particular work or works. Receipt of books will be acknowledged and copies placed in my office. Your cooperation would be greatly appreciated.

Bill

FERGUSON NAMED DIRECTOR OF PUBLIC SAFETY

Jack D. Ferguson Jr., executive officer with the Greenville County Sheriff's Department, has been named director of public safety for the University. He will assume his duties Sept. 1.

Ferguson, a 36-year-old native of Toccoa, GA, has 11 years experience in law enforcement, including six years with the Greenville Sheriff's Department.

Melvin Barnette, vice president for business and finance, said Ferguson will be administratively responsible for the University's uniform police division, the investigative division, the fire department and the emergency medical service.

Barnette said Ferguson was selected from about 150 applicants.

As executive officer with the sheriff's department, Ferguson serves as direct assistant to the sheriff in administration and supervision, including policy recom-

mendations and regulations governing departmental activities. He holds the rank of major with the department.

During his six years with the sheriff's department, he has worked in administrative services as planner and project director of grants. He was director of the Greenville County Detention Center for six months.

For five years, Ferguson was a police officer with the Manchester, CT, Police Department. He has participated in numerous seminars and training courses on all aspects of law enforcement and public safety.

Ferguson has served as an instructor in police science at Greenville Technical College and in the adult education division of Greenville County Schools, teaching in two correctional institutions.

He holds an associate degree in law enforcement from Manchester Community College, a bachelor's degree in history and social science from Eastern Connecticut State College and a master of education degree in personnel services from Clemson.

Ferguson has been active in civic affairs, serving as a loaned executive officer with the 1978 United Way campaign. He is a member of the Greenville County advisory committee on alcohol and drug abuse.

MEMORIAL AWARD ESTABLISHED IN TEXTILES

A new endowed memorial award -- the Brockington G. Woodham Memorial Award in Textiles -- recognizes the outstanding junior exhibiting the potential for success in the field of textiles at Clemson.

Mr. Woodham graduated from Clemson in 1921 with a degree in textile engineering. Establishment of the award recognizes his long and useful life to South Carolina and his love for Clemson.

The award was established with a \$2,000 gift to the Clemson University Foundation

from Mr. Woodham's son, Brockington G. Woodham Jr., of Toledo, OH, a 1950 graduate in architecture.

The first recipient, Jesse H. Campbell of Iva, was awarded \$100 and a certificate during April Honors and Awards Day ceremonies. Recipients are selected on the basis of scholarship and leadership.

ACCOUNTING AND FINANCE

Jimmy D. Sheriff (Assoc Prof) was a discussant in an orientation session for chapter presidents of the National Association of Accountants at the organization's annual international meeting held in Boston June 24-28.

BIOCHEMISTRY

J. M. Shively (Prof and Hd) performed collaborative research with Prof. E. Bock at the University of Hamburg, Hamburg, West Germany, June 15-July 6. While in Europe he gave the following seminars:

"Viruslike Icosahedral Bodies (Carboxysomes) in Prokaryotic Cells," at the Technical University of Braunschweig, Braunschweig, West Germany.

"Intracytoplasmic Membrane Production in a Temperature-Sensitive Mutant of Escherichia coli," at the University of Keil, Keil, West Germany.

"Extra Membrane Production in a Temperature-Sensitive Mutant of Escherichia coli," at the University of Hamburg, Hamburg, West Germany.

"The Thiobacilli: Structure, Metabolism, and Inhibition," to the Scientists and Professionals for Concrete Technology, Hannover and Hamburg, West Germany.

R. H. Hilderman (Asst Prof), R. L. Glinski (Grad Stu), P. C. Gainey (Grad Stu) and T. P. Mawhinney published a paper, "Evidence that Lysyl- and/or Arginyl-tRNA Synthetases from Rat Liver Contain Carbohydrates," in Biochem. Biophys. Res. Commun. 88: 1052-1061.

A. V. Caggiano (Grad Stu) and G. L. Powell (Assoc Prof) published a paper, "Regulation of Enzymes by Fatty Acyl-CoA, Site Specific Binding of Fatty Acyl-CoA by Citrate Synthase - A Spin Labeling Study," in J. Biol. Chem. 254, 2800-2806.

Prof. Powell attended the Gordon Conference on Lipid Metabolism in Meridan, NH, June 17-22 and presented a poster.

Prof. Powell presented a poster by A. G. Caggiano and G. L. Powell entitled "The Fatty Acyl-CoA Binding Site of Citrate Synthase" at the XIth International Congress of Biochemistry in Toronto, Canada, July 10.

D. C. Speckhard (Asst Prof) was awarded the following grants: a Biomedical Research Support Grant and a Research Corporation grant entitled "The Functional Role of Zinc in Viral RNA Polymerase."

BOTANY

At the South Carolina Academy of Sciences meeting at USC, members of the Botany Department presented the following papers:

John Fairey (Assoc Prof) and Caroline Douglass (Curator), "A Preliminary Report on the Flora Trotter Shoals."

K. D. Getsinger (Grad Stu), C. R. Dillon (Prof and Hd) and Suzanne Piekos (Lab Tech III), "Preliminary Report on the Use of INT as an Indication of the Metabolism Activity of Aquatic Vascular Plants."

John B. Nelson (former Grad Stu) and Prof. Fairey have a paper, "Misapplication of the Name Stachys nuttali (Lamiaceae) to a New Southeastern Species" accepted for publication by Brittonia.

Prof. Fairey received a two-year contract to survey the flora of the Trotters Shoals dam site from the Corps of Engineers.

Prof. Dillon received a two-year matching

grant form WRRI for a study of the biology and ecology of Brazilian Elodea (Egeria densa).

CHEMISTRY AND GEOLOGY

Villard S. Griffin Jr. (Prof, Geology) has recently published the article "Southeastern United States Geoscience Departments in the 1977-78 Academic Year." This research paper appeared in the Journal of Geological Education, V. 27, and represents outgrowth of the 1977-78 University self-study.

John W. Huffman (Prof, Chem) attended the Gordon Research Conference on Natural Products July 23-27 at New Hampton School, New Hampton, NH, and presented a short talk on "The Conformation of Epi- α -cyperone and its t-Butyl Analogue."

ECONOMICS

Richard McKenzie (Prof) has published the following: (1) "The Non-Rational Domain and the Limits of Economic Analysis," Southern Economic Journal (July 1979); (2) The Political Economy of the Educational Process (Martinus-Nijhoff, Inc. 1979); (3) Restrictions on Business Mobility: A Study in Political Rhetoric and Economic Reality (American Enterprise Institute, 1979); (4) "Wage Fund Pay System and Departmental Discord in Academe," Social Science Quarterly (Spring 1979); (5) "The Economists' Paradigm," chapter in The Economics of Libraries (Univ of Illinois, July, 1979). Prof. McKenzie was also recently appointed to the Editorial Board of the Southern Economic Journal.

ELEMENTARY AND SECONDARY EDUCATION

William W. Pennscott (Prof) published a report, "Get Ready for Counselor Education Program Accreditation!" in the April 1979 Newsletter of the South Carolina Association for Counselor Education and Supervision.

ENGLISH

Sterling Eisiminger (Asst Prof) reviewed three books: Remarks on Colour by Ludwig Wittgenstein in Verbatim, 5, No. 4 (1979), 16; and Available Light by Philip Booth and Absence of Unicorns, Presence of Lions by Michael Mott in Green River Review, 10, No. 1 (1979), 152-157. He also published "Colorful Language" in Verbatim, 6, No. 1 (1979), 1-3.

John Idol (Assoc Prof) published an article, "William Dean Howells and William Cowper Brann," in The South Atlantic Bulletin, 44 (May 1979), 59-65.

Jane B. Martin (Vstg Instr) published "Valentine (Never Delivered)," a poem, in Cold Mountain Review, 7 (Spring 1979), 49.

Prof. Idol, William Koon (Assoc Prof) and Prof. Eisiminger served as advanced placement readers for the Educational Testing Service June 7-13.

FORESTRY

The 1979 Annual Meeting of the Forest Products Research Society was held July 8-13 at San Francisco, CA. L. E. Nix (Assoc Prof) presented two papers, "Cellular Kinetics of Compression Wood Formation in Southern Pine" and "Tracheid Differentiation in Southern Pine During the Dormant Season." P. Labosky (Assoc Prof) presented a paper, "HPLC Separation of Virginia Pine Bark Flavonoids," and J. A. Sellers (Grad Stu) presented a paper, "Monomeric Flavonoids in Virginia Pine Bark."

D. H. Van Lear (Prof) authored a paper, "Environmental Factors Affecting Survival of Planted Seedlings," presented at the summer meeting of the South Carolina Division of the Society of American Foresters held at Rock Hill July 12-13.

A photograph taken by C. L. Lane (Prof) was used as the cover of the June 1979 issue of the Journal of Forestry. The picture was of students hiking a trail

on the Clemson Experimental Forest.

L. T. Henderson (Former Grad Stu),
T. F. Koppe (Grad Stu, Penn State), and
R. E. Schoenike (Prof) co-authored a
paper, "Ten-Year Evaluation of a Seed
Source Study of Eastern Redcedar in South
Carolina," published in Tree Planters
Notes 30 (3).

HOME ECONOMICS

Veronica Carmack (Assoc Prof) published
an article on computer assisted instruc-
tion in The Journal of Extension Vol.
XVII (May/June 1979) page 8 titled "Add
Sparkle to Your Programs."

Prof. Carmack, Emily Wiggins (Asst Prof)
and Judith S. Kline (Asst Prof) attended
the American Home Economics Association
meeting in St. Louis, MO, June 24-28.
Profs. Carmack and Wiggins presented
papers at the State President's Unit
Meeting June 24.

Rose J. Davis (Assoc Prof) participated
in a two-week course, "Recent Advances
in Human Nutrition," at Cornell Univer-
sity July 9-20.

INDUSTRIAL MANAGEMENT

E. Earl Burch (Prof, IM and Math Sc) has
published the following papers: (1) "A
Conceptual Framework for Understanding
Productivity," published in May-June 1979
issue of Industrial Management; (2) "Op-
timal Selection of Matched Pairs from
Large Data Bases," co-authored with
Mike Sibley (Assoc Prof, Acct and Fin),
published in Decision Sciences, Vol. 10,
No. 1, (January 1979); (3) "Some Rules
for Introducing OR/MS into an Organiza-
tion," accepted for publication by
Industrial Management.

Earl W. Arp Jr. (Assoc Prof) addressed
the opening session of the American
Industrial Hygiene Conference May 28 in
Chicago. The topic for this presentation
was "The Professional Society as Viewed
by a Member."

Carl Gooding (Assoc Prof) was on the
faculty for the University of Georgia's
25th Annual Executive Development Program
May 28-June 8 in Athens, GA.

J. Wayne Patterson (Asst Prof) published
an article, "The Successful Banking
Executive," in the July 1979 issue of the
Palmetto Banker.

MATHEMATICAL SCIENCES

John Kenelly (Prof) was invited to be a
special visitor at the Governor's School
for South Carolina's academically talented
high school students in Charleston. On
July 19 he visited with the students and
directed one of their regular informal
group discussion sessions on the subject
of "Testing." On July 20 he presented
two formal talks, "What's Ahead for You
in Advanced Placement?" and "Geometry,
Shadow Prices and Finding the Best Answer."

James A. Reneke (Assoc Prof) presented
a lecture, "System Identification for
Hereditary Systems from Input-Output Data,"
July 20 at the Stochastic Dynamical
Systems Conference which was hosted by the
Mathematical Sciences Department
July 17-21.

PHYSICS AND ASTRONOMY

Philip B. Burt (Prof) published a paper,
"Nonlinear Quantum Field Theories,
Solitary Waves and Self Interactions,"
in the proceedings of the Georgia Academy
of Sciences. This paper was presented
at the Conference on Theoretical Physics,
University of Georgia, May 1,2.

John R. Ray (Prof) had a recent publica-
tion, "Lagrangians and Systems They
Describe - How Not to Treat Dissipation
in Quantum Mechanics," in the American
Journal of Physics 47 626 (1979).

PROFESSIONAL DEVELOPMENT

E. Earl Burch (Prof, IM) is chairperson
for a seminar, "Effective Production

Planning and Control and Inventory Management," to be held Sept. 10-11 on campus.

E. S. Olson (Prof, Text) is co-chairperson for an on-campus course, "Troubleshooting in Dyeing and Finishing," to be held Sept. 11-12.

Steve LaRoche (Prof, IM) is chairperson for a three-day seminar, "Fundamentals of Management for Quality Control Supervisors," to be held at the Ramada Inn in Greenville Sept. 11-13.

Hendrikus E. J. Van Bulck (Asst Prof, IM) is chairperson for a seminar, "Increasing Purchasing's Effectiveness," to be held Sept. 12-13 on campus.

RECREATION AND PARK ADMINISTRATION

Paul Richard Saunders (Asst Prof) presented an invited paper, "Prediction of Non-

developed Recreation Sites in South Carolina Using USFS Renewable Resources Evaluation Data," at the 1979 Workshop on Forest Resource Inventories held in Fort Collins, CO, July 22-27. The international meeting was sponsored by the Society of American Foresters and the International Union of Forestry Research Organizations.

TEXTILES

John J. Porter (Prof) has been invited to address the Textile Congress to be held at the Excola Technica de Industria Quimica e Textil, Rio de Janeiro, Brazil, August 19-22.

MINUTES OF THE FACULTY SENATE MEETINGS, MAY 8 AND JUNE 19, 1979

See addendum.

Faculty Senate Roster 1979-1980

(Senate phone - 656-2456)

NAME	ACADEMIC UNIT	CAMPUS ADDRESS	PHONE	TERM ENDS
<u>AGRICULTURAL SCIENCES:</u>				
A. R. Mazur (A)	Horticulture	168 P & AS	3403	1980
S. G. Turnipseed (W)	Ent. & Econ. Zoology	Edisto Sta.	284-2203	1980
B. R. Smith * (R) +	Agron. & Soils	277 P & AS	3102	1981
C. S. Thompson (V. Pres.)	Ag. Ec. & Rur. Soc.	255 Barre	2396	1981
R. G. Bursey (W)	Food Science	B-213 P & AS	3397	1981
J. W. Dick (P)	Poul. Science	116 Newman	3166	1982
V. L. Quisenberry (W)	Agron. & Soils	277 P & AS	3102	1982
H. M. Harris (W)	Ag. Ec. & Rur. Soc.	270 Barre	3475	1982
<u>ARCHITECTURE:</u>				
J. L. Young (A) +	Arch. Studies	159 Lee	3081	1981
H. W. Webb (P)	Bldg. Science	142 Lee	3081	1982
<u>EDUCATION:</u>				
W. E. West * (P) +	Industrial Education	107 Freeman	3447	1980
G. W. Gray (A)	Elem. & Sec. Education	217-A Godfrey	3482	1981
L. H. Blanton (W)	Agri. Education	108 Tillman	3300	1982
<u>ENGINEERING:</u>				
D. D. Edle (A)	Chem. Engr.	221 Earle	3056	1980
J. J. Komo (P)	Elec. & Comp. Engr.	225 Riggs	3378	1980
W. Baron * (W)	Civil Engr.	212 Lowry	3002	1981
J. C. Hester * (A) +	Mech. Engr.	303-A Riggs	3291	1981
<u>FOREST & RECREATION RESOURCES:</u>				
G. E. Howard (A)	Rec & Park Adm.	290 For & Rec	3400	1981
D. L. Ham (R) +	Forestry	262 For & Rec	2478	1982
<u>INDUSTRIAL MANAGEMENT & TEXTILE SCIENCE:</u>				
G. H. Worm (P) +	Ind. Management	312-B Sirrine	3499	1981
J. A. Kimbell (A)	Acct. & Finance	304 Sirrine	3265	1982
R. W. Rouse (W)	Acct. & Finance	213 Sirrine	3265	1982
<u>LIBERAL ARTS:</u>				
H. W. Fleming (Pres.)	Pol. Science	401 Strode	3246	1980
R. S. Lambert (W)	History	104-A Hardin	3153	1980
E. M. Coulter (Sec.)	Pol. Science	410 Strode	3235	1981
C. A. Grubb (A) +	History	203 Hardin	3153	1981
R. B. Rollin (P)	English	602 Strode	3030	1982
<u>LIBRARY:</u>				
M. A. Armistead (P) +	Documents	Library	3024	1982

NAME	ACADEMIC UNIT	CAMPUS ADDRESS	PHONE	T E
<u>NURSING:</u>				
M. A. Kelly (A)	Nursing	439 Nursing	3072	1
P. M. Kline (R) +	Nursing	519 Nursing	3072	1
<u>SCIENCES:</u>				
P. B. Burt (W)	Phys & Astro.	117 Kinard	3417	1
H. K. McDowell (R)	Chem. & Geol.	114 Brackett	3089	1
J. E. Schindler (W)	Zoology	336 Long	3247	1
H. F. Senter (A)	Math. Sciences	0-304 Martin	3433	1
D. S. Snipes (P) +	Chem. & Geol.	210 Brackett	3438	1

*Committee Chairman; +Advisory Committee Members

KEY: Admissions and Scholarship (A); Policy (P); Research (R); and Welfare (W)

COMMITTEES AND COUNCILS OF THE UNIVERSITY
1979-80

Affirmative Action Committee. This committee advises the affirmative action officer on matters relating to equal employment opportunity and the affirmative action program.

M. S. Willingham (A/A Specialist,
Chairperson, ex officio)

C. L. Addison (Acad Aff)	1980
W. F. Steirer, Jr. (Acad Aff)	1980
O. D. Nelson (Stu Aff)	1980
L. E. Reid (Bus & Fin)	1980
R. W. Snelsire (Acad Aff)	1981
P. D. Hawkins (Bus & Fin)	1981
N. S. Williams (Stu Aff)	1981
D. F. Keller (Acad Aff)	1982
E. D. Wynn (Acad Aff)	1982
D. B. Dillard (Bus & Fin)	1982
H. D. Harby (Dev)	1982
G. W. Gray (Fac Sen)	1980
S. M. Willis (A/A Area Coord, ex officio)	
R. L. Thompson (A/A Area Coord, ex officio)	
E. N. Tyndall (A/A Officer, ex officio)	
F. Mauldin (A/A Specialist, Alternate Chp, ex officio)	

Archives Committee. This committee advises the administration on all policies concerning the University archives.

(Chairperson to be elected)

O. Ersenkal (Arch)	1980
R. T. Benson (Voc Educ)	1980
J. W. Hubbard (AgEcon/RurSoc)	1981
V. A. Rudowski (Engl)	1982

R. S. Lambert (Fac Sen)	1980
F. M. Lense (Undgrad Stu)	1980
W. K. Michener (Grad Stu)	1980
J. W. G. Gourlay (Dir of Library, ex officio)	

Athletic Council. This council recommends all policy concerning inter-collegiate athletics to the Vice President for Student Affairs.

K. N. Vickery (Chairperson)	
J. V. Reel, Jr. (Secy, Hist)	1980
L. W. Gahan (RPA)	1980
J. F. Geldard (Math Sci)	1981
B. J. Skelton (Hort)	1981
I. C. Briscoe (Elem/Sec Educ)	1982
R. C. Harshman (Chem Engr)	1982
H. W. Fleming, Jr. (Pres, Fac Sen)	1980
W. F. Steirer, Jr. (Immed Past Pres of Fac Sen)	1981
R. Noblet (Past Pres of Fac Sen)	1980
C. H. Sawyer (Chp of Scholarships & Awards Committee)	
B. G. Rogers (Pres, Alumni Assn)	
D. T. Moorhead (Immed Past Pres of Alumni Assn)	
F. R. Gressette (Pres of IPTAY)	
G. G. Poole, Jr. (Immed Past Pres of IPTAY)	
D. W. Kraus (Pres of GSA)	
J. M. Anderson (Pres of Stu Sen)	
P. J. Grant (Pres, Block "C")	

COMMITTEES AND COUNCILS (Cont.)

Audio-Visual Committee. This committee advises the Vice President for Development on the audio-visual needs and programs of the University.

(Chairperson to be elected)

T. F. Collins (Phys & Astron)	1980
W. A. Shain (For)	1980
T. E. Burke (E & CE)	1980
D. W. Blair (Econ)	1981
R. G. Halfacre (Hort)	1981
R. C. Davenport (Voc Educ)	1981
D. Y. Brannock, Jr. (Lang)	1982
M. F. Barber (Nurs)	1982
T. W. Dimond (Arch)	1982
M. R. Weber (Undgrad Stu)	1980
D. B. Luke (Grad Stu)	1980
L. H. Blanton (Fac Sen)	1980
W. H. Durham (Dir of Comm Cntr, ex officio)	

Campus Names Committee. The function of this committee is to recommend to the administration and the Board of Trustees appropriate names for buildings and streets.

H. H. Macaulay, Jr. (Chairperson)

B. M. Cool
H. N. Cooleage, Jr.
J. L. Edwards
J. H. Hobson
E. M. Lander, Jr.
S. G. Nicholas
E. S. Olson
T. L. Senn

Campus Security and Lighting Committee. This committee shall advise the President through the chairperson on security policies and programs, including campus lighting.

W. D. Stone (Dir, Phys Plnt, Chairperson, ex officio)

V. K. Laycock (Fac)	1981
M. C. Daggitt (Undgrad Stu)	1980
S. A. Nix (Undgrad Stu)	1980
P. S. Siebert (Undgrad Stu)	1980
W. H. Amspacher, Jr. (Grad Stu)	1980
S. G. Delony (Stu Aff, ex officio)	
M. N. Lomax (Dir of Housing, ex officio)	
To be appointed (Campus Security, ex officio)	

Computer Advisory Committee. This committee advises the Dean of Graduate Studies and University Research on needs of the Computer Center.

(Chairperson to be elected)

F. R. Sias, Jr. (E & CE)	1980
G. H. Worm (Ind Mgmt)	1980
R. W. McLellan (RPA)	1980
C. M. Sieverdes (Socio)	1981
J. M. Westall (Comp Sci)	1981
M. G. Robinson (Nurs)	1981
G. J. Wells (AgEcon/RurSoc)	1982
E. L. Falk (Arch)	1982
M. C. Woodson, Jr. (Elem/SecEd)	1982
K. N. Vickery (Stu Aff)	1981
J. M. Bennett (Bus & Fin)	1981
G. M. Moore (Dev)	1981
S. J. Machnik (Undgrad Stu)	1980
J. C. Powell (Grad Stu)	1980
H. K. McDowell (Fac Sen)	1980
C. J. Duckenfield (Dir of Comp Ctr ex officio)	

COMMITTEES AND COUNCILS (Cont.)

Council of Academic Deans. This council makes recommendations on policy matters affecting the colleges to the President through the Vice President for Academic Affairs and Dean of the University.

V. Hurst (Chp, V-Pres for Academic Affairs)

L. P. Anderson (Agri Sci)

H. E. McClure (Arch)

H. F. Landrith (Educ)

L. C. Wilcox (Engr)

B. H. Box (FRR)

W. D. Trevillian (IM&TS)

H. M. Cox (Lib Arts)

G. Labecki (Nurs)

H. E. Vogel (Sci)

Vacant (Undgrad Studies, ex officio)

A. E. Schwartz (Grad Studies & Univ Res
ex officio)

S. M. Willis (Univ Ext, ex officio)

H. W. Fleming, Jr. (Pres, Fac Sen,
ex officio)

Disciplinary Committee. This committee is vested by the Board of Trustees with the authority to take action in certain disciplinary matters that have not been delegated to the student body.

(Chairperson to be elected)

H. W. Fleming, Jr. (Pres,
Fac Sen) 1980

R. G. Bursey (Fac Sen) 1980

C. D. Wiggins (Acct & Fin) 1980

J. M. Anderson (Pres, Stu Sen) 1980

R. L. Fuzy (Pres, Stu Bdy) 1980

S. McCharen (Undgrad Stu) 1980

B. C. Prinzinger (Grad Stu) 1980

Educational Council. This council recommends academic, research, and extension policy to the President.

B. L. Atchley (Chairperson)

V. Hurst (Acad Affairs)

M. E. Barnette (Bus & Fin)

W. T. Cox (Stu Affairs)

J. B. McDevitt (Exec Affairs)

S. G. Nicholas (Development)

B. W. Anderson (Asst Univ Counsel)

Vacant (Undgrad Studies)

A. E. Schwartz (Grad Studies & Univ Res)

S. M. Willis (Univ Ext)

K. N. Vickery (Adm & Reg)

J. W. G. Gourlay (Library)

H. W. Fleming, Jr. (Fac Sen)

L. P. Anderson (Agri Sci)

H. E. McClure (Arch)

H. F. Landrith (Educ)

L. C. Wilcox (Engr)

B. H. Box (FRR)

W. D. Trevillian (IM&TS)

H. M. Cox (Lib Arts)

G. Labecki (Nurs)

H. E. Vogel (Sci)

J. L. Allen (Acting Dir, Public Relations,
ex officio)

E. N. Tyndall (Secretary, ex officio)

Energy Conservation Committee. This committee formulates ideas and acts as a clearinghouse for ideas from anyone in the University family about reducing energy consumption.

W. D. Stone (Asst V-Pres, Phys Plnt,
Chairperson)

J. A. Stanley (Phys Plant, Co-Chairperson)

COMMITTEES AND COUNCILS (Cont.)

Energy Conservation Committee (Cont.)

J. M. Hanna (Phys Plant Engineer)
 D. W. Bradbury (Mech Engr)
 F. J. Keller (Physics)
 R. L. Cottle (Econ)
 J. W. Young, Jr. (Res Halls)
 J. R. Pope, Jr. (Athletics)
 J. C. Barnhill (Stu, dorm resident)
 N. M. Blomgren (Stu, dorm resident)

Extension Council. This council advises the Dean of University Extension on all policies and regulations pertaining to the total University extension program.

S. M. Willis (Chairperson, ex officio)

G. C. Skelley, Jr. (An Sci) 1980
 H. W. Webb (Arch) 1980
 D. H. Pate, Jr. (Ed Serv) 1980
 F. C. Alley (Chem E) 1981
 G. E. Sabin (For) 1981
 C. S. Simpson, Jr. (Ind Mgmt) 1981
 R. J. Knapp (Sociol) 1982
 V. F. Rempusheski (Nurs) 1982
 R. P. Ashworth (Botany) 1982
 H. M. Harris (Fac Sen) 1980
 J. W. Riser (Pres, Ext Sen)
 R. Davis (Pres, Ext Spec Assn)
 L. Durham (Pres, Ext Home Econ Assn)
 M. J. Carter (Pres, Ext Cnty Agents' Assn)

Fine Arts Series Committee. This committee plans, coordinates, and publicizes the annual program of University concerts, films, lectures, plays, and art exhibits.

J. H. Butler (Chairperson)

E. A. Rupert (Agron & Soils) 1980
 J. B. Mulholland (Arch) 1980
 G. B. Savitsky (Chem & Geol) 1980
 J. L. Gaddis (Mech Engr) 1981
 B. M. Hawkins (Econ) 1981
 V. B. Stanley (Elem/SecEduc) 1981
 J. V. Reel, Jr. (History) 1982
 J. L. Stevenson (RPA) 1982
 G. A. Kiser-Brown (Nurs) 1982
 K. J. Sample (Undgrad Stu) 1980
 T. A. Wilson (Grad Stu) 1980
 G. E. Howard (Fac Sen) 1980
 H. M. Cox (Lib Arts, ex officio)
 H. E. McClure (Arch, ex officio)

Graduate Council. All policies and regulations affecting graduate curricula and requirements leading to graduate credits, certification, and degrees shall be approved by this council and recommended to the Dean of the University.

A. E. Schwartz (Chp, ex officio)
 T. E. Skelton (Ent & Econ Zool) 1980
 I. C. Briscoe (Elem/SecEduc) 1980
 J. P. Holschneider (Arch) 1980
 J. E. Clark (Civil Engr) 1981
 E. E. Burch, Jr. (Ind Mgmt) 1981
 G. A. Tanner (Nurs) 1981
 R. A. Conover, Jr. (RPA) 1982
 R. S. Lambert (History) 1982
 W. E. Gettys (Physics & Astron) 1982
 F. H. Boyles (Grad Stu) 1980
 D. P. Froman (Grad Stu) 1980
 A. R. Mazur (Fac Sen) 1980

COMMITTEES AND COUNCILS (Cont.)

Graduate Council Alternates

R. E. Barfield, Jr. (Engl)	1980
R. E. Schoenike (For)	1980
A. W. Madison (Comp Sci)	1980
F. G. Roth (Arch)	1981
N. D. Camper (Plnt Path/Physio)	1981
S. L. Buckner (Elem/Sec Educ)	1981
R. H. Brown (Civil Engr)	1982
H. H. Ulbrick (Econ)	1982
M. A. Kelly (Nurs)	1982
H. F. Senter (Fac Sen)	1980

Handicapped Student Advisory Committee.

This committee is responsible to the Vice President for Academic Affairs. It supports the faculty by gathering information and developing specialized techniques for teaching handicapped students.

A. E. James (Chairperson, FRR)
L. C. Reddick (Counseling Center)
G. R. von Tungeln (Agri Sci)
G. W. Patterson (Arch)
W. O. Corder (Educ)
C. O. Huey, Jr. (Engr)
T. N. Schaap (IM&TS)
C. Furry (Lib Arts)
M. G. Robinson (Nurs)
R. P. Ashworth (Sciences)
L. R. Wood (Library)
J. W. Pace (Stu Affairs)
H. W. Fleming, Jr. (Pres, Fac Sen, ex officio)

Honors Program Council. This council recommends policy, including curricula and admission standards, concerning the Honors Program to the Dean of Undergraduate Studies.

C. H. Sawyer (Chairperson)	
J. E. Schindler (Zool)	1980
R. G. Bursey (Fd Sci)	1980
J. Bobbitt (Engl)	1980
J. R. Washburn (Arch)	1981
A. M. Sibley (Acct & Fin)	1981
E. F. Olive (Elem/SecEduc)	1981
M. W. Dixon (Mech Engr)	1982
P. M. Kline (Nurs)	1982
B. M. Cool (For)	1982
A. D. Turner (HPC Student)	1980
K. M. Dubis (HPC Student)	1980
V. L. Quisenberry (Fac Sen)	1980
Vacant (Undgrad Studies)	
K. N. Vickery (Adm & Reg)	

Laboratory Animal Welfare Committee.

This committee functions as the evaluation committee on the care and treatment of laboratory animals and advises the Dean of the University in regard to the animal and animal facility policies of the University.

R. W. Henningson (Chairperson)	
F. J. Stutzenberger (Microbiol)	1980
A. F. von Recum (Interdis Stud)	1981
D. E. Turk (Fd Sci)	1982
H. A. Hock (Undgrad Stu)	1980
M. E. Holmes (Grad Stu)	1980
S. L. Moore (State Veterinarian)	

COMMITTEES AND COUNCILS (Cont.)

Landscape and Site Development Committee.

This committee formulates and recommends to the administration long-rang goals for the landscape and site development of the University campus.

Vacant (Supt of Grounds, Chairperson)

W. D. Stone (Asst V-Pres, Physical Plant)

D. J. Boyer (Supt of Planning & Engr)

R. D. Eflin (Campus Master Planner)

M. B. Taylor (Hort) 1980

J. L. Young (Fac Sen) 1980

E. Valkenburg (Undgrad Stu) 1980

Library Committee. This committee advises the Director of the Library on the determination of needs of the library, the formation of library policies, and on such other matters as may be referred to it by the Director.

A. W. Baxter (Chp, Microbio) 1980

J. V. Hamby (Elem/SecEduc) 1980

J. C. McCormac (Civil Engr) 1980

B. F. Campbell (Nurs) 1981

S. S. H. Rizvi (Fd Sci) 1981

M. H. Wynn (RPA) 1981

E. C. Voelker (Arch) 1982

B. M. Hawkins (Econ) 1982

M. M. Sinka (Lang) 1982

W. E. Moore (Undgrad Stu) 1980

S. S. Ganguly (Grad Stu) 1980

G. H. Worm (Fac Sen) 1980

J. W. G. Gourlay (Dir of Library,
ex officio)

Management Information Systems Coordinating Board (MIS). This board will supervise the development of administrative data systems and determine the priority of systems to be programmed and implemented.

B. L. Atchley (Chairperson)

M. E. Barnette (Bus & Fin)

A. E. Schwartz (Acad Aff)

K. N. Vickery (Stu Aff)

J. L. Strom (Dev)

G. D. Alexander (Dir of Adm Prog Serv)

C. J. Duckenfield (Dir of Comp Center)

J. C. Peck (Dir of Info Systems)

Medical Technology Curriculum Committee.

This committee will counsel and advise with undergraduate students enrolled in this curriculum and make recommendations to the Undergraduate Council about the curriculum.

M. B. Bishop (Chp, Chem & Geol)

H. K. McDowell (Chem & Geol)

F. J. Stutzenberger (Microbiol)

Patent Committee. This committee makes recommendations to the President concerning all University patent matters in accord with Patent Policy in the Faculty Manual.

J. B. McDevitt (Chairperson)

T. H. Garner (Agri Engr) 1981

D. W. Bradbury (Mech Engr) 1981

C. B. Bishop (Math Sci) 1981

C. W. Roberts (Text) 1982

A. T. Shearin (For) 1982

J. F. Owen (Undgrad Stu) 1980

P. A. Sperling (Grad Stu) 1980

COMMITTEES AND COUNCILS (Cont.)

Patent Committee (Cont.)

H. W. Webb (Fac Sen) 1980
 M. E. Barnette (Bus & Fin, ex officio)
 T. D. Efland (Assoc Dean, IM&TS,
 ex officio)
 W. C. Godley (Dir of Agri Exp Sta,
 ex officio)
 S. G. Nicholas (V-Pres for Dev,
 ex officio)
 E. N. Tyndall (Sec, ex officio)

Planning Council. This council advises the V-Pres. for Development on plans and proposals pertaining to the development of programs for the enhancement of the academic and cultural life of the University community.

J. L. von Rosenberg (Chem &
 Geol, Chp) 1981
 C. L. Lane (For) 1980
 N. R. Bauld, Jr. (Mech Engr) 1980
 W. J. Schubert (Econ) 1980
 P. W. Wannamaker (Lang) 1981
 M. A. Kelly (Nurs) 1981
 T. R. Adkins, Jr. (Ent/EconZool) 1982
 J. L. Young (Arch) 1982
 J. P. Crouch (Ind Educ) 1982
 A. D. Hickman (Bus & Fin) 1981
 H. W. Fleming (Pres, Fac Sen) 1980
 R. L. Fuzy (Pres, Stu Bdy) 1980
 J. M. Anderson (Pres, Stu Sen) 1980
 D. W. Kraus (Pres, GSA) 1980
 R. D. Eflin (Campus Master Planner,
 ex officio)

Pre-Professional Health Curricula

Committee. This committee will counsel and advise with undergraduate students enrolled in the curricula and make recommendations to the Undergraduate Council concerning these curricula.

F. A. Burtner (Sociology, Chp)
 F. W. Cooke (Interdis Studies)
 R. L. Hays (Zoology)
 J. H. Hobson (Chem & Geol)
 M. J. B. Paynter (Microbiology)
 P. A. Steiner (Physics & Astron)

Pre-Veterinary Medicine Curriculum

Committee. This committee will counsel and advise with undergraduate students enrolled in this curriculum and make recommendations to the Undergraduate Council regarding this curriculum.

J. E. Jones (Poul Sci, Chp)
 T. R. Adkins, Jr. (Ent/Econ Zool)
 C. E. Boyd (State Veterinarian)
 J. F. Dickey (Dairy Sci)
 J. C. McConnell, Jr. (Animal Sci)
 G. P. Noblet (Zool)

Protection of Human Subjects Committee.

This committee reviews all University projects and activities that involve human subjects and ensures that the rights and welfare of subjects are adequately protected, that the risks to subjects are outweighed by potential benefits, and that the informed consent of subjects is obtained by methods that are adequate and appropriate.

R. W. Henningson (Chairperson)
 F. W. Cooke (DIS)
 C. R. Freeze (Elem/SecEduc)

COMMITTEES AND COUNCILS (Cont.)

Protection of Human Subjects Committee.

J. E. Hair (Stu Health Serv)
 L. G. Peppers (Sociol)
 D. J. Senn (Psychology)
 R. L. Thompson (American Enka Co.)
 W. P. Williams, Jr. (Fd Sci)

H. W. Gilliam (Undgrad Stu) 1980
 M. C. West (Undgrad Stu) 1980
 D. B. Tholstrup (GSA) 1980
 J. B. McFadden (Athletics, ex officio)
 C. P. Kriese (Athletics, ex officio)
 B. E. Trent (YMCA, ex officio)

Rare Possessions Committee. This committee evaluates all items proffered to the University as gifts, or otherwise, in order to determine whether they should be accepted as rare possessions. Once accepted, the committee ensures proper identification, placement, maintenance and security of these possessions.

J. S. Kline (Chp, Ext Home Econ)
 H. N. Cooledge, Jr. (Hist & Vis Studies)
 M. A. Armistead (Library)
 J. C. Hubbard, Jr. (Text)
 E. A. Freeman (Music)

Recreation Advisory Committee. This committee receives and reviews suggestions and complaints regarding the use of physical recreation facilities and programs at the University and advises the Vice President for Student Affairs on a continuing basis.

D. B. Smith (AgEcon/RurSoc) 1980
 H. D. Harby (Dev) 1980
 R. E. Ricketts (Bus & Fin) 1981
 J. C. Hester (Mech Engr) 1981
 P. R. Saunders (RPA) 1982
 J. S. Smith (Stu Aff) 1982

Safety and Fire Prevention Committee. This committee advises the President through the University Safety Coordinator and other appropriate officials on safety policies and programs.

D. L. Roberts (Agri Engr,
Chairperson) 1980
 M. J. Drews (Text) 1981
 R. H. Hilderman (Biochem) 1981
 C. O. Huey (Engr) 1982
 M. D. Egan (Arch) 1982
 A. D. Timms (Campus Security) 1981
 J. M. Hanna (Phys Plant) 1981
 V. R. Harrell (Bus & Fin) 1981
 S. M. Langston (Undgrad Stu) 1980
 L. Laoh (Grad Stu) 1980
 M. A. Kelly (Fac Sen) 1980
 L. D. Reamer (Mgr of Clemson
Forest, ex officio)
 W. E. Berry (Univ Safety Coord,
ex officio)
 J. B. McFadden (Athletic Dept,
ex officio)
 J. E. Hair (Student Health Serv,
ex officio)

COMMITTEES AND COUNCILS (Cont.)

Schedule Committee. This committee develops the master schedule of courses taught at the University.

K. N. Vickery (Chp, ex officio)

R. P. Ashworth (Botany)

S. B. Bishop (Grad Stu)

L. H. Brown (Arch)

B. M. Cool (Forestry)

C. C. Davis (Acct & Fin)

J. C. Harden, Jr. (Math Sci)

R. C. Harshman (Chem Engr)

J. A. Hash (Agri Educ)

S. S. Hayasaka (Micro)

L. L. Henry (Engl)

J. H. Higgins (Nurs)

R. H. Hilderman (Biochem)

J. C. Hubbard (Text)

W. G. Hudson (Mech Engr)

P. R. Kelley (Military Sci)

H. G. Lefort (Ceramic Engr)

J. T. Long (E & CE)

W. R. Mattox (Adm & Reg)

J. R. McCravey (Aerospace Stu)

D. D. Moyle (Interdis Stu)

R. F. Nowack (Civil Engr)

T. J. Overcamp (ESE)

G. L. Page (Undgrad Stu)

J. R. Salley, Jr. (Chem)

C. R. Smith (Ind Mgmt)

P. A. Steiner (Phys & Astron)

T. E. Smith (Aerospace Stu)

G. R. von Tungeln (Res Inst)

A. P. Wheeler (Zool)

Scholarships and Awards Committee. This committee selects students for University scholarships and awards. It also has the responsibility for planning and coordinating the annual University Honors and Awards Day.

C. H. Sawyer (Chairperson)

A. D. Brooks (Elem/SecEduc) 1980

M. H. Sanders (Ind Mgmt) 1980

N. L. Book (Arch) 1980

C. H. Woodell (Engl) 1981

M. A. Nicholson (Nurs) 1981

V. S. Griffin, Jr. (Chem/Geol) 1981

W. E. Castro (Mech Engr) 1982

B. J. Skelton (Hort) 1982

M. J. Ellerbrock (RPA) 1982

L. L. Orr (Phi Kappa Phi) 1980

T. A. Olson (Phi Eta Sigma) 1980

C. A. Grubb (Fac Sen) 1980

K. N. Vickery (Adm & Reg, ex officio)

G. E. Coakley (Assoc Dean of Students, ex officio)

S. G. Delony (Assoc Dean of Students, ex officio)

M. G. Carmichael (Dir of Fin Aid, ex officio)

Student Grievance Committee. The purpose of this committee is to hear and to attempt to resolve grievances brought by students against members of the faculty and staff.

A. M. Mathiasen, Jr. (Stu Aff) 1982

S. B. Smith, Jr. (Stu Aff) 1981

B. J. O'Rourke (Undgrad Stu) 1981

E. Tewkesbury (Undgrad Stu) 1980

E. C. Hipp, Jr. (Ind Mgmt) 1982

COMMITTEES AND COUNCILS (Cont.)

Student Grievance Committee (Cont.)

R. F. Nowack (Civil Engr)	1980
J. L. Stevenson (RPA)	1981
D. A. Newhouse (Grad Stu)	1981
J. C. Newton (Bus & Fin)	1981

Student Relations Committee. This committee's function is to hear academic grievances by students against faculty members and attempt to resolve those grievances.

C. A. Grubb (Chp, Fac Sen)	1980
D. S. Snipes (Fac Sen)	1981
S. W. Devanny (Stu Sen)	1980
M. A. Pinson (Stu Sen)	1981
C. S. Thompson (V-Pres, Fac Sen, ex officio)	1980
G. D. Harlow (V-Pres, Stu Bdy, ex officio)	1980
S. G. Delony (Assoc Dean of Students, ex officio)	

Traffic and Parking Committee. This committee advises the Vice President for Executive Affairs on all matters concerning traffic and parking.

J. W. Pace (Chp, ex officio)	
B. P. Watkins (Voc Educ)	1981
S. M. Jansen (Grad Stu)	1980
R. W. Rouse (Fac Sen)	1980
D. B. Stafford (Civil Engr)	
Vacant (Chief of Security)	
J. L. Strom (Dir, Plan & Corp Rel)	
M. A. Wright (Asst Campus Master Planner)	
G. L. Jones (Athletics)	
A. I. Barron (Undgrad Stu)	1980

To be appointed (Chp of Traffic &
Grounds Comm of Stu Sen) 1980

To be appointed (Member of Traffic
& Grounds Comm of Stu Sen) 1980

J. B. McDevitt (V-Pres for Exec Aff,
ex officio)

Undergraduate Council. All policies and regulations affecting undergraduate curricula and requirements leading to undergraduate credits and degrees shall be approved by this council and recommended to the Dean of the University.

Vacant (Chairperson, ex officio)

J. M. Melton (Lang)	1980
A. M. Duvall (Nurs)	1980
G. L. Powell (Biochem)	1980
D. R. Sloan (Poul Sci)	1981
L. H. Brown (Arch)	1981
J. H. Rodgers (Agri Educ)	1981
J. J. Komo (E & CE)	1982
J. R. Warner (For)	1982
J. D. Sheriff (Acct & Fin)	1982
O. F. Lovelace, Jr. (Undgrad Stu)	1980
C. C. Wingard (Undgrad Stu)	1980
W. Baron (Fac Sen)	1980
K. N. Vickery (Adm & Reg, ex officio)	

Undergraduate Council Alternates

B. L. Sill (Civil Engr)	1980
G. E. Howard (RPA)	1980
H. H. Ulbrich (Econ)	1980
F. L. Day (Engl)	1981
H. T. Cotter (Nurs)	1981
H. F. Senter (Math Sci)	1981

Undergraduate Council Alternates (Cont.)

L. L. Bauer (AgEcon/RurSoc)	1982
N. L. Book (Arch)	1982
P. C. Caley (Ind Educ)	1982
P. M. Kline (Fac Sen)	1980

V. Hurst (V-Pres for Acad Aff)	
R. L. Fuzy (Pres, Stu Bdy)	1980
H. W. Fleming, Jr. (Pres, Fac Sen)	1980
D. W. Kraus (Pres, GSA)	1980
J. C. Newton (Dir of Aux Enterprises)	

University Research Council. This council advises the administration on all policies, procedures, and regulations affecting sponsored and unsponsored research on the campus.

A. E. Schwartz (Chairperson)

J. L. Prince, III (E & CE)	1980
R. Noblet (Ent/Econ Zool)	1980
R. H. Barker (Text)	1980
G. C. Means, Jr. (Arch)	1981
J. F. Geldard (Chem & Geol)	1981
B. V. Burkett, Jr. (Ind Educ)	1981
L. I. Park (Psychol)	1982
C. A. Belcher (Nurs)	1982
P. R. Saunders (FRR)	1982
R. M. Knorr (Undgrad Stu)	1980
J. R. Davis (Grad Stu)	1980
E. M. McEwan (Grad Stu)	1980
B. R. Smith (Fac Sen)	1980
R. W. Henningson (Sec, ex officio)	

Vending Machine Committee. This committee will be responsible for reviewing requests for allocation of funds from the vending machine operations clearing account and making recommendations to the Vice President for Business and Finance and the President.

J. T. Roberts (Chairperson)

W. T. Cox (V-Pres for Stu Aff)

NEW FACULTY AND STAFF, 1979-80

The following members of the faculty and staff joined the University between August 15, 1979 and August 15, 1980.

President's Office

Atchley, Bill L., President; B.S., M.S., University of Missouri; Ph.D., Texas A&M University; Parkway Drive

College of Agricultural Sciences

Alverson, David R., Assistant Professor, Entomology and Economic Zoology; B.S., M.S., Clemson University; Ph.D., University of Georgia; 102 Evergreen Drive

Barrett, Billy G., Jr., Environmentalist I (Regulatory Specialist), Plant Pest Regulatory Service; A.A.S., Sumter Area Technical College; Office: P. O. Box 1087, Columbia 29202; Home: Route 4, Box 204-A, Sumter 29150

Bodine, Ashby B., Assistant Professor, Dairy Science; B.S., M.S., Ph.D., Clemson University; Box 85, Route 2, Seneca 29678

Bunn, Joe M., Professor, Agricultural Engineering; B.S., M.S., North Carolina State University; Ph.D., Iowa State University; Route 2, Southern Acres, Anderson 29621

Chapin, Jay W., Assistant Professor, Entomology and Economic Zoology - Edisto Experiment Station; B.S., Dickinson College; M.A., East Carolina University; Ph.D., Clemson University; Edisto Experiment Station, P.O. Box 247, Blackville 29817

Fortnum, Bruce A., Assistant Professor, Plant Pathology and Physiology - Pee Dee Experiment Station; B.A., LaSalle College; M.S., University of Delaware; Ph.D., Clemson University; E-812 East Parker Drive, Florence 29501

Gall, Kenneth L., Chemist I, Agricultural Chemical Services; B.S., Clemson University; Box 8673, University Station, Clemson 29632

Gallop, Reginald A., Visiting Professor, Food Science; A.S.T.C., Sydney Technical College, N.S.W. (Australia); M.Sc., Ph.D., Oregon State University; Route 2, Cherokee Gardens, Seneca 29678

Godbee, Richard G., II, Assistant Professor, Animal Science - Edisto Experiment Station; B.S., M.S., University of Georgia; Ph.D., Colorado State University; Edisto Experiment Station, P.O. Box 247, Blackville 29817

Gooden, Dewitt T., III, Associate Professor, Agronomy and Soils - Edisto Experiment Station; B.S., M.S., Ph.D., North Carolina State University; 17 Kilkenny Townhouses, Barnwell 29812

Grimes, Lawrence W., Assistant Professor, Experimental Statistics; B.S., M.S., University of Georgia; Ph.D., Ohio State University; 206 Payne Avenue

Laney, R. Walker, Environmentalist I (Regulatory Specialist) Plant Pest Regulatory Service; Office: P.O. Box 271, Florence 29501; Home: Route 3, Box 192, Bennettsville 29512

Leafgreen, Mark O., Assistant Professor, Agricultural Economics and Rural Sociology; B.S., M.S., Indiana State University; Ph.D., Kansas State University; 111 Nonna Lane, Seneca 29678

Mahrer, Linda L., Assistant Professor, Home Economics (Housing Specialist); B.S., University of North Dakota; M.S., University of Arizona; 240 Plant and Animal Sciences Building, Clemson University

Maurice, Denzil V., Assistant Professor, Poultry Science; B.S., Allahabad Agricultural Institute (India); M.Ag.S., University of Reading (England); Ph.D., University of Georgia; 13-A Daniel Drive

Moore, Sandra H., Chemist I, Agricultural Chemical Services; B.S., Georgia College; 101 Pickens Street

NEW FACULTY AND STAFF (Cont.)

College of Agricultural Sciences (Continued)

Pyle, David D., State Leader, 4-H and Youth Development Programs and Associate Professor, Animal Science; B.S., Purdue University; M.A., Ed.D., Ball State University; 111 Albemarle Drive

Rathwell, P. James, Assistant Professor, Agricultural Economics and Rural Sociology; B.S., Arizona State University; M.S., Ph.D., Oklahoma State University; Route 2, Box 9-A, Hanover Hills, Seneca 29678

Smith, Aundry ("Andy") R., Chemist I, Agricultural Chemical Services; B.S., Shorter College; Dixon Trailer Park, Box 3, Seneca 29678

St. Louis, David G., Assistant Professor, Animal Science - Edisto Experiment Station; B.S., Colorado State University; M.S., Ph.D., Cornell University; Edisto Experiment Station, P.O. Box 247, Blackville 29817

Tennant, Herbert M., Jr., Instructor in Home Economics; B.S., David Lipscomb College; M.S., Clemson University; 107 Clarendon Drive

Webster, Henry W., Professor, Animal Science; B.S., M.S., North Carolina State University; Ph.D., Clemson University; 202 Shaftesbury Road

Wells, Vanessa A., Environmentalist I (Regulatory Specialist), Plant Pest Regulatory Service; B.S., Clemson University; Office: 520 N. Main Street, Summerville 29483; Home: 410 A Crestview Drive, Summerville 29483

Willis, Naomi H., Instructor in Home Economics; B.S., North Carolina State University; 503 Fife Drive

Winiecki, Cecelia A., Assistant Professor, Home Economics; State 4-H and Youth Development Coordinator; B.S., M.S., University of Wisconsin; 119 Deerfield Road, Florence 29501

Wise, Michael L., Assistant Professor, Agricultural Economics and Rural Sociology; B.S., Mississippi State University; Ph.D., Washington State University; 106 Hartwell Drive, Seneca 29678

Wolf, Dan (NMI), Visiting Professor, Agricultural Engineering; B.S., M.S., Ph.D., Technion, Israel Institute of Technology; 45 Bradley Street

Zublena, Joseph P., Assistant Professor, Agronomy and Soils - Pee Dee Experiment Station; B.A., M.S., Ph.D., Rutgers University; 1422 W. Palmetto, Florence 29501

College of Education

Archibald, Thomas, Professor and Head of Military Science; Lieutenant Colonel, United States Army; B.S., University of Missouri; M.B.A., University of Georgia

Huff, William H., III, Captain, U.S. Army; Assistant Professor of Military Science; B.S., Virginia Military Institute; MBA, Clemson-Furman

Sattler, Dennis H., Major, U.S. Air Force; Assistant Professor of Aerospace Studies; B.S., University of Akron; M.S., University of Southern California

Smith, Thomas E., Captain, U.S. Air Force; Assistant Professor of Aerospace Studies; B.S., M.S., California State University; 200 Rippleview Drive

College of Engineering

Alajajian, Charles J., Assistant Professor of Electrical and Computer Engineering; B.S., Purdue University; M.S., University of Illinois

Jackson, John E., Jr., Assistant Professor of Engineering Mechanics and Mechanical Engineering; B.S., M.S., Ph.D., University of Alabama; 118 Valley View Drive

NEW FACULTY AND STAFF (Cont.)

College of Engineering (Continued)

Nnaji, Soronadi, Assistant Professor of Civil Engineering; B.S., Israel Institute of Technology; M.S., University of Hawaii

Oswald, Thomas H., Associate Professor of Engineering Technology; B.S., Auburn University; M.S., Massachusetts Institute of Technology

Roby, Charles K., Associate Professor of Engineering Technology; B.S., M.S., Marquette University; 229 Riggs Drive

College of Forest and Recreation Resources

Burnett, George W., Assistant Professor of Recreation and Park Administration; A.B., Southern Methodist University; MSLA, Our Lady of the Lake University; M.A., Ph.D., University of Oklahoma; 105 Lakeside Court

Ellerbrock, Michael J., Instructor in Recreation and Park Administration; B.S., Texas A&M University; M.R.P.A., Clemson University; P. O. Box 5187, Clemson

Hedden, Roy L., Associate Professor of Forestry; B.S.F.R., M.S., Ph.D., University of Washington; Room 256 Forest and Recreation Resources Building

Nodine, Stephen K., Instructor in Forestry; B.S., M.S., Clemson University; 204 Edgewood Avenue

Ray, Kurt F., Assistant Professor of Forestry; B.S., University of New Mexico; M.S., University of Montana; Ph.D., Texas A&M University; 207 Brook Street

Strunk, Robert I., Lecturer in Recreation and Park Administration; B.A., Carson-Newman College; M.S., Eastern Kentucky University; Camp Ridgecrest, Ridgecrest, N.C. 28770

Tainter, Franklin H., Associate Professor of Forestry; B.S.F., University of Montana; M.S., Ph.D., University of Minnesota; Route 1, Box 76, Central 29630

Taras, Michael A., Robert Adger Bowen Professor of Forestry; B.S., M.F., The Pennsylvania State University; Ph.D., North Carolina State University at Raleigh; 302 Maple, Seneca 29678

Williamson, Robert D., Adjunct Associate Professor of Forest and Recreation Resources; B.S., M.S., Howard University; Ph.D., University of Massachusetts; 105 Mockingbird Street, Seneca 29678

College of Industrial Management and Textile Science

Cantrell, Rayford S., Assistant Professor of Industrial Management; B.S., University of Alabama; M.S., University of Kentucky; Keoway Village Apartment F-5, Seneca 29678

Friedlob, George T., Assistant Professor of Accounting and Finance; B.A., Vanderbilt University; M.B.A., University of Louisville

Latham, William C., Assistant Professor of Accounting and Finance; B.S., Ph.D., University of South Carolina; M.B.A., Texas Technological University

Martin, Thomas L., Instructor of Economics; B.A., B.S., Wake Forest University

Oglesby, Daniel K., Jr., Lecturer of Industrial Management; B.S., Davidson College; Certificate in Hospital Administration, Duke University Medical School

Patin, Roy B., Jr., Assistant Professor of Accounting and Finance; B.S., M.B.A., Louisiana State University

College of Industrial Management and Textile Science (Continued)

Riggs, Walter E., Assistant Professor of Industrial Management; B.S., M.S., Clemson University

Rutledge, Broadus L., III, Associate Professor of Textiles; B.ChE., University of Virginia; M.S., Ph.D., Institute of Textile Technology; 208 Lark Circle

Stone, Louis H., Assistant Professor of Industrial Management; B.S., N.C. State University; M.B.A., Ph.D., University of North Carolina at Chapel Hill; 105 Bradley Street

Wheeler, Alan D., Instructor of Industrial Management; B.B.A., University of Massachusetts; M.B.A., West Texas State University

Woodside, B. Perry, III, Assistant Professor of Accounting and Finance; B.A., Furman University; M.B.A., Ph.D., University of South Carolina; 206 Aberdeen Drive, Greenville 29605

Womer, N. Keith, Associate Professor of Industrial Management; B.A., Miami University of Oxford, Ohio; Ph.D., Pennsylvania State University

College of Liberal Arts

Aarnes, William H., Visiting Assistant Professor of English; B.A., Oberlin College; M.A. (Education), Catholic University; M.A. (English), Ph.D., Johns Hopkins University; Route 1, Central 29630

Alphonso, Karen E., Visiting Instructor in English; B.A., M.A., Clemson University; 11 East Queen Street, Pendleton 29670

Donahue, George M., Instructor in English; B.A., University of Delaware; M.A., Clemson University; 226-C Charleston Avenue

Duffy, Bernard K., Assistant Professor of Speech; B.A., M.A., San Jose State University; Ph.D., University of Pittsburgh; 101B Victoria Lane

Edwards, Karen B., Instructor in English; A.B., Lenoir-Rhyne College; M.A., University of Tennessee

Findley, Martha B., Instructor in English; B.A., M.A., Clemson University; 489 C Longshore Avenue, Bayshore Estates, Seneca 29678

Gill, Patrick J., Visiting Assistant Professor of Psychology; B.A., University of Minnesota; M.A., Ph.D., State University of New York

Hodgin, Jere L., Assistant Professor of Drama; B.A., University of North Carolina at Wilmington; M.F.A., University of Georgia; 109 Dargan Lane

Jeske, Jeffrey M., Visiting Assistant Professor of English; B.A., Cleveland State University; M.A., University of Toledo; Ph.D., Kent State University; 20 Pecan Terrace

Lafferty, Nancy B., Instructor in Speech; B.A., M.A., University of Akron; Route 1, Pendleton 29670

Littlefield, Laura M., Instructor in English; B.S., The College of Charleston; M.A.T., The Citadel, 21 Calhoun Apartments, Cochran Road

McKale, Donald M., Professor of History; B.S., Iowa State University; M.A., University of Missouri; Ph.D., Kent State University

Maker, William A., Assistant Professor of Philosophy; B.A., University of Massachusetts; M.A., Ph.D., New School of Social Research in New York; 95 Hillcrest Avenue

NEW FACULTY AND STAFF (Cont.)

College of Liberal Arts (Continued)

Moise, Edwin E., Visiting Assistant Professor of History; B.A., Harvard University; M.A., Ph.D., University of Michigan

Moyle, Thomas M., Instructor in English; B.A., M.A., Clemson University; 201-A Forest Hill Apartments

Orlov, Paul A., Visiting Assistant Professor of English; B.A., Michigan State University; M.A., Ph.D., University of Toronto

Paz, Denis G., Visiting Assistant Professor of History; A.A., San Antonio College; B.A., M.A., North Texas State University; Ph.D., University of Michigan; 12A Palmetto Blvd.

Pecoraro, Roger P., Visiting Instructor in English; B.A., University of New Orleans; M.A., Clemson University; H-3 Robinhill Apartments

Peitzman, Charles E., Instructor in English; B.A., University of Missouri; M.A., Clemson University; 238 Brookforest Drive, Anderson 29621

Todd, Ann D., Instructor in English; B.A., M.A., Clemson University; 3 Lakewood Terrace Apartments

Traxler, Elizabeth E., Instructor in Political Science; B.A., Winthrop College; M.A., University of South Carolina; Apt. 8, 610 E. North St., Greenville 29601

White, Mervin F., Associate Professor of Sociology; B. S., M.S., Brigham Young University; Ph.D., University of Kentucky

College of Nursing

Geldmaker, Bethany J., Instructor in Nursing; B.S.N., University of Florida; M.S.N., University of Virginia

Gillespie, Jackie S., Visiting Instructor in Nursing; B.S.N., Clemson University; M.N., University of South Carolina

Poston, L. Iona, Instructor in Nursing; B.S.N., Medical University of South Carolina; M.S.N., Medical College of Georgia

Ramsey, Priscilla W., Visiting Instructor in Nursing; B.S.N., M.S.N., Clemson University

Rawlings, Ann E., Visiting Instructor in Nursing; B.A., University of Tennessee; M.S.N., Medical College of Georgia

Wilhite, Mary J., Director of Baccalaureate Degree Program in Nursing; Associate Professor of Nursing; B.S.N., Baylor University; M.S.N., Washington University at St. Louis; Ed.D., The University of Tulsa

College of Sciences

Brannan, James R., Assistant Professor of Mathematical Sciences; B.S., M.S., Utah State University; Ph.D., Rensselaer Polytechnic Institute

Carnevale, Thomas A., Visiting Professor of Mathematical Sciences; B.S., St. Francis College; M.S.T., Fordham University; D.A., Idaho State University

Eifler, Larry Q., Adjunct Associate Professor of Mathematical Sciences; B.S., UMKC; Ph.D., Purdue University

Gentry, Robert C., Visiting Professor of Atmospheric Physics; B.S., Murray State University; Ph.D., Florida State University

College of Sciences (Continued)

Jamison, Robert E., II, Associate Professor of Mathematical Sciences; B.S., Clemson University; M.S., Ph.D., University of Washington, Seattle

Kauffman, Robert M., Adjunct Professor of Mathematical Sciences; B.A., University of the South (Sewanee); M.S., Ph.D., Louisiana State University at Baton Rouge

Kohn, Linda M., Assistant Professor of Botany; B.S., University of Vermont; Ph.D., Cornell University

Krasner, Herbert C., Assistant Professor of Computer Science; B.S., M.S., University of Missouri, Rolla

Liberty, Vernon, Visiting Assistant Professor of Mathematical Sciences

Mabbott, Gary A., Assistant Professor of Chemistry; Ph.D., University of Wisconsin

Mansker, William L., Assistant Professor of Geology; Ph.D., University of New Mexico

Ohme, Paul, Adjunct Associate Professor of Mathematical Sciences and NSF Faculty Fellow; B.A., Huntingdon College; M.A., University of Alabama; Ph.D., Florida State University

Overcash, Danny R., Visiting Assistant Professor of Physics; A.B., Pfeiffer College; Ph.D., Clemson University

Page, Edward W., III, (transferring from E&CE to Computer Science Department), Associate Professor of Computer Science; B.S., Clemson University; M.S., University of Alabama; Ph.D., Duke University

Pellerin, Henry A., Visiting Assistant Professor of Computer Science; B.S., University of Southwestern Louisiana; Ph.D., Clemson University

Rahn, Ronald O., Adjunct Professor of Physics; B.A., University of Connecticut; Ph.D., Brandeis University

Ratnam, Bharati A., Visiting Assistant Professor of Physics; B.Sc., University of Delhi (India); M.S., Moscow State University (USSR); M.Sc., Ph.D., University of Illinois

Ringeisen, Richard D., Associate Head and Associate Professor of Mathematical Sciences; B.S., Manchester College; M.S., Ph.D., Michigan State University

Saxena, K. M. Lal, Visiting Professor of Mathematical Sciences; B.Sc., M.Sc., University of Lucknow (India); Ph.D., University of Minnesota

Sellers, Harold C., Lecturer in Computer Science; B.S.I.E., University of Pittsburgh

Shier, Douglas R., Visiting Associate Professor of Mathematical Sciences; A.B., Harvard College; Ph.D., London School of Economics

Singleton, Victor, Visiting Instructor in Chemistry

Van Wyk, Marvin R., Adjunct Associate Professor of Mathematical Sciences and NSF Faculty Fellow; B.A., Central College; M.S., Ph.D., University of Iowa

Warner, Daniel D., Associate Professor of Mathematical Sciences; A.A., Phoenix College; B.S., M.A., Arizona State University; Ph.D., University of California at San Diego

NEW FACULTY AND STAFF (Cont.)

The Robert Muldrow Cooper Library

Colburn, Frances L., Circulation Librarian; B.S., M.L.S., Texas Woman's University

Diaz, Francisco M., Science Reference Librarian; B.S., M.S., Georgia College; M.S. in Library Science, Florida State University

Meyer, Richard W., Associate Director; B.A., B.S., University of Missouri; M.S. in Library Science, University of Illinois

Graduate Studies and University Research

Administrative Programming Services:

Brooks, Amy R., Computer Programmer III; B.S., Clemson University

Neil, Martha E., Programmer Analyst; B.S., University of South Carolina

Rice, Amelia E., Computer Programmer III

Computer Center:

Acebo, Gabriel, Systems Analyst I; B.S., B.A., M.A., University of South Florida

Anthony, Michael E., Systems Programmer I; B.S., Clemson University

Behrens, James, Computer Operator II

Beaudoin, Edmond, Systems Programmer II; B.S., Clemson University

Brown, William, Computer Operator I

Chiles, Barbara A., Systems Programmer II; B.S., Erskine College

Cousins, Sharon M., Accounting Clerk II, B.S., Clemson University

Nelson, Richard, Systems Programmer II; B.A., Lancaster Polytechnic; M.B.A., Clemson/Furman

Thimsen, Donald J., Systems Programmer I; B.S., Clemson University

Division of Information Systems Development:

Patterson, Arthur G., Systems Analyst I; B.S., Muskingum College

Smith, David K., Systems Analyst I; B.S., Clemson University

Office for Development

Alumni Relations:

Bouknight, Mendal A., Alumni Field Representative; B.S., Clemson University; M.S., University of Georgia; P. O. Box 121, Clemson

Taylor, Thomas C., Alumni Field Representative; B.S., Clemson University; 144 W. Duke Street, Pendleton 29670

Communications Center:

Kidd, Jane V., Radio-TV Editor; ABJ, University of Georgia; 222 Hartwell Road, Lavonia, Georgia 30553

NEW FACULTY AND STAFF (Cont.)

Communications Center: (Continued)

Howard, Thomas E., Producer-Director; B.S. in Communications, University of Maryland; 55 Villa Road Apartments A6-149, Greenville 29615

University Relations:

McNeill, Danny R., Extension Editor; B.A., University of South Carolina

Whittle, Mary, Associate Editor, Experiment Station; B.A., University of South Carolina

Office for Student Affairs

Coles, Linda C., Residence Hall Supervisor, Housing; B.A., Clemson University

Hill, Letitia Z., Residence Hall Supervisor, Housing; Dunn & Bradstreet School

Holland, B. Lawson, Athletic Coach - Dorm Counselor, Housing; B.S., Clemson University

Hudson, Hallman, Assistant Football Coach, Athletics; B.S., Texas A&M University

McManus, Jervis G., Student Recruitment Specialist, Undergraduate Admissions; B.A., University of North Carolina at Fayetteville

Still, Cynthia C., Residence Hall Supervisor, Housing; B.A., Mercer University

VanDer Heyden, Larry C., Assistant Football Coach, Athletics; B.S., Iowa State University

Vinson, Michael L., Psychologist, Counseling Center; B.S., The Citadel; M.Ed., Ph.D., University of South Carolina

Williamson, Sarah S., Director of Operations, Clemson University Union; B.S., Howard University

Office for Business and Finance

Internal Auditing Division:

Tegen, Charles A., Auditor III; A.B., Central Wesleyan; Route 1, Box 122, Central, 29630

Nabers, Judy B., Auditor II; B.A., Furman; 6220 White Horse Road, Greenville 29611

Hughey, Michael, Audits and Records Manager, B.A., Clemson University

Physical Plant Division:

Stone, Walter D., Jr., Director, B.S., The Citadel; M.S., Texas A&M University

Public Safety Division:

Ferguson, Jack D., Jr., Director of Public Safety; A.S., Law Enforcement, Manchester Community College; B.A., Eastern Connecticut State College; M.Ed., Clemson University

Calendar of Campus Events

AUGUST 1979

- 16 -- Faculty and Staff Orientation, P&AS Auditorium, 8:30 a.m.
- 17 -- Individual College Orientation.
- 19 -- All residence halls open at 10 a.m.
- 20 -- General Faculty and Staff Meeting, Tillman Hall Auditorium, 10:30 a.m.
- 20-21 -- Orientation, new students.
- 22 -- Registration, all students.
- 24 -- Classes begin on regular schedule.
- 25 -- Tubing Down the Chatooga. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 26 -- Free Flick: "FM." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 27-28 -- Computer Portraits. Computer will electronically reproduce and enlarge your portrait. Sponsored by University Union, Union Art Gallery, 10 a.m. - 4 p.m. University I.D. required, 25¢ charge.
- 29-30 -- Seminar: "Energy-Conscious Design." Sponsored by Clemson University Housing Institute, Clemson House. Call 656-3308 for more information.
- 29-30 -- Graduate Advisors' Workshop. An opportunity for faculty to familiarize themselves with Graduate School policies and procedures. Sponsored by the Graduate School, 200 Olin Hall, 1:30 p.m. Open to individual major advisors, departmental coordinators of graduate applications and admissions, and any interested faculty or staff member.
- 29 -- Slide Show: "Spring Break Cruise." Sponsored by University Union, Union Art Gallery, noon - 2 p.m. Open to the public, no admission charge.
- 29 -- Clay Day. Participants are invited to do their thing with clay and even attempt to "throw" clay on the pottery wheel. Sponsored by University Union, loggia, noon - 4 p.m. University I.D. required, no admission charge.
- 30 -- College Bowl Match. Sponsored by University Union, loggia, noon - 1 p.m. Open to the public, no admission charge.
- 31-9/1 -- Coffeehouse: Dick Pinny. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.

CALENDAR OF CAMPUS EVENTS (continued)

SEPTEMBER 1979

- 1 -- Trip to Sliding Rock. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 1 -- Train Trip: Southern Crescent to Atlanta. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 2 -- Waterskiing Clinic. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 2 -- Free Flick: "Man Who Loved Cat Dancing." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 3 -- Placement Orientation for Seniors and Graduate Students from the College of IM&TS. Sponsored by Placement Office, 301 Surrine Hall, 4:30 p.m. Open to all students interested in a job after graduation.
- 4 -- Placement Orientation for Seniors and Graduate Students from the College of Forest and Recreation Resources. Sponsored by Placement Office, 113 F&RR Building, 3:30 p.m. Open to all students interested in a job after graduation.
- 5 -- Placement Orientation for Seniors and Graduate Students from the College of Engineering. Sponsored by Placement Office, 100 Lowry Hall, 4:45 p.m. Open to all students interested in a job after graduation.
- 5 -- Performing Artist Series: "Einstein the Man." Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public. Tickets may be purchased at the door or as an entire subscription series. Details at the Union Information Desk.
- 6 -- Placement Orientation for Seniors and Graduate Students from the College of Agricultural Sciences. Sponsored by Placement Office, P&AS Auditorium, 7 p.m. Open to all students interested in a job after graduation.
- 7-8 -- Coffeehouse: Scott Doss. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 8 -- Football: Furman University, here, 1 p.m.
- 9 -- Free Flick: "For Pete's Sake." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 9 -- Whitewater Rafting. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 10-21 -- Room Change Period. Submit application to the Housing Office, 8 a.m. - 4:30 p.m.
- 10 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 10-14, -- Camping Program for Senior Citizens. Co-sponsored by the S.C. Commission on
17-21, Aging and the Recreation and Park Administration Department. Call 656-2477
24-28 for more information.

CALENDAR OF CAMPUS EVENTS (continued)

- 11 -- Placement Orientation for Seniors and Graduate Students from the College of Sciences. Sponsored by Placement Office, 101 Kinard Lab, 5 p.m. Open to all students interested in a job after graduation.
- 12 -- Speaker: Dr. Bill Atchley. Sponsored by Speakers Bureau, amphitheater, 8 p.m. with a reception following. In case of rain, Brackett Hall Auditorium. Open to the public, no admission charge.
- 12 -- Placement Orientation for Seniors and Graduate Students from the College of Architecture. Sponsored by Placement Office, 100 Lee Hall, 4 p.m. Open to all students interested in a job after graduation.
- 12 -- English Hour Lecture: Dr. Alan Schaffer. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 13 -- Placement Orientation for Seniors and Graduate Students from the College of Liberal Arts. Sponsored by Placement Office, Daniel Hall Auditorium, 4 p.m. Open to all students interested in a job after graduation.
- 14 -- Beach Party. Sponsored by University Union, East Beach, 3 p.m. until late evening. University I.D. required, no admission charge.
- 14-15 -- Coffeehouse: Silent Movies. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 15 -- Football: Maryland, here, 1 p.m.
- 16 -- Free Flick: "Tarzan and the Ape Man." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 16 -- Sailing Clinic. Sponsored by University Union, YMCA Recreational Area. Details and sign up at Union Information Desk, University I.D. required.
- 16 -- Soccer: University of Connecticut, here, 2 p.m.
- 17-10/5 -- Short Course: "Professional Development for Recreation Managers." Sponsored by Recreation and Park Administration Department, F&RR Building. Contact Paul Saunders at 656-3400 for more information.
- 18 -- Performing Artist Series: Tequila Mockingbird, Chamber Ensemble. Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public. Tickets may be purchased at the door or as an entire subscription series. Details at the Union Information Desk.
- 21 -- Concert: Lexington Park String Ensemble, Jackson Parkhurst, conductor. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 21-22 -- Coffeehouse: David Bethany. Sponsored by University Union, The Gutter Coffeehouse. University I.D. required, 50¢ donation.
- 22 -- Concert: Gene Cotton. Sponsored by University Union, Littlejohn Coliseum, 8 p.m. Open to the public. Ticket prices and time of sale to be announced. Contact the Union Information Desk for more information.

CALENDAR OF CAMPUS EVENTS (continued)

- 22 -- Football: Georgia, here, 1 p.m.
- 23 -- Day Hike to Table Rock. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 23 -- Free Flick: "Rabid." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 23 -- Soccer: Duke University, here, 2 p.m.
- 24 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 27 -- Distinguished Chemical Industry Business Seminar: Mr. John Beck, President, Penreco, Division of Pennzoil. Sponsored by Chemistry and Geology Department, Earle Hall Auditorium, 1:25 p.m. and 131 Brackett Hall, 4:30 p.m. Open to the public, no admission charge.
- 29-30 -- Overnight Canoe Trip. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 30 -- Free Flick: "September 30, 1955." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.

OCTOBER 1979

- 1-6 -- Musical Comedy: The Apple Tree by Jerry Bock and Sheldon Harnick. Presented by the Clemson Players, Daniel Hall Auditorium, 8 p.m. nightly except for 3:30 p.m. matinee on Thursday. Open to the public, no admission charge.
- 2 -- Soccer: Georgia State, here, 3:30 p.m.
- 3 -- Speaker: David Toma, known as the "compassionate cop" from Newark, NJ. Sponsored by Speakers Bureau, Brackett Hall Auditorium, 8 p.m. with reception following. Open to the public, no admission charge.
- 3 -- English Hour Lecture: Dr. John J. McLaughlin. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 5 -- Cartoon Special. Sponsored by University Union, Edgar's Nightclub, immediately after Tigerama. University I.D. and proof of age required, no admission charge.
- 5-6 -- Coffeehouse: Robin and Linda Williams. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 5 -- Soccer: Cleveland State vs. Appalachian State, here, 2 p.m.; and Davis and Elkins vs. Clemson, here, 4 p.m.
- 6 -- Block and Bridle Club Horse Show. Sponsored by Animal Science Department and Block and Bridle Club, horse arena off Anderson Highway, 9:30 a.m. - 5 p.m. Open to the public, no admission charge.

CALENDAR OF CAMPUS EVENTS (continued)

- 6 -- Football: Virginia (Homecoming), here, 1 p.m.
- 7 -- Bike Trip on Blue Ridge Parkway. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 7 -- Free Flick: "Billy Jack." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 7 -- Soccer: Davis and Elkins vs. Appalachian State, here, 1 p.m.; and Cleveland State vs. Clemson, here, 3 p.m.
- 8 -- German Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 9 -- Concert: Marc Regnier, guitarist. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 10-11 -- Roommate Game. Sponsored by University Union, Palmetto Room of Union, 8 p.m. Open to the public, no admission charge.
- 12-13 -- Coffeehouse: Local Talent. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 13-14 -- Overnight Backpacking Trip. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 14 -- Free Flick: "Go West." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 14 -- Soccer: USC, here, 2 p.m.
- 15 -- Lecture: "The Future of Nursing Practice" by Martha E. Rogers, Professor of Nursing at New York University. Sponsored by University Fine Arts Committee and presented by College of Nursing Fine Arts Committee, Daniel Hall Auditorium, 2-4 p.m. Reception following in College of Nursing Building. Open to the public, no admission charge.
- 18 -- Performing Artist Series: Pocket Mime Theater. Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Tickets may be purchased at the door or as an entire subscription series. Details at Union Information Desk.
- 18 -- Soccer: Furman University, here, 3:30 p.m.
- 19-20 -- Coffeehouse: Connie Huber. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 20 -- Conference: 2nd annual fall conference of the Society of Southeastern Social Psychologists (SSSP). Sponsored by Psychology Department, Holiday Inn, 9 a.m. Open to faculty, students, staff and guests, call 656-3210 for more information.
- 20-21 -- Overnight Excursion to Gatlinburg. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.

CALENDAR OF CAMPUS EVENTS (continued)

- 21 -- Fall Color Photography Trip. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 21 -- Free Flick: "Bite the Bullet." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 23 -- Spanish Play. Sponsored by Languages Department and presented by students, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 24 -- Speaker: Earl Butz, former secretary of agriculture under Presidents Nixon and Ford. Sponsored by Speakers Bureau, Brackett Hall Auditorium, 8 p.m. with reception following. Open to the public, no admission charge.
- 24 -- Concert: Dizzy Gillespie, jazz trumpet virtuoso. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by Student Use Card, season tickets, or individual tickets on sale at gate.
- 24 -- Soccer: Erskine College, here, 3 p.m.
- 26-27 -- Annual Meeting of the Trustees of the J.E. Sirrine Textile Foundation, Inc., College of Industrial Management and Textile Science.
- 27 -- Football: NC State, here, 1 p.m.
- 28 -- Horseback Riding. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 28 -- Free Flick: "Legend of Hell House." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 28 -- Soccer: Jacksonville University, here, 2 p.m.
- 29 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 30 -- Concert: "Gilbert and Sullivan Patter Songs." Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 31 -- ESP Performance: Hypnotist Gil Eagles. Sponsored by University Union, Palmetto Room of Union, 8 p.m. Open to the public, ticket price to be announced. Contact Union Information Desk for details.
- 31 -- Pumpkin Carving Contest. Sponsored by University Union, loggia, noon - 3 p.m. Open to students only, prizes awarded.
- 31 -- Movie Special: "It's Alive" and "Tales from the Crypt." Sponsored by University Union, Edgar's, 10 p.m. University I.D. and proof of age required, no admission charge.

NOVEMBER 1979

- 1 -- Distinguished Chemical Industry Business Seminar: Mr. J. Virgil Waggoner, Managing Director, Monsanto Plastics and Resins Co. Sponsored by Chemistry and Geology Department, Earle Hall Auditorium, 1:25 p.m. and 131 Brackett

CALENDAR OF CAMPUS EVENTS (continued)

- Hall, 4:30 p.m. Open to the public, no admission charge.
- 2-3 -- Meeting of the South Carolina Section of ASAE, McAdams Hall.
- 2-3 -- Coffeehouse: Movies to be announced. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 3 -- Open House: Agricultural Engineering Department, McAdams Hall.
- 3 -- Chicken Barbecue for Clemson - Wake Forest Game. Sponsored by Alpha Tau Alpha and Society for the Advancement of Agricultural Education, southeast side of Jervey Athletic Center, 10:30 a.m. - 12:30 p.m. Open to the public, \$2.50 per plate.
- 3 -- Engineer-In-Training Examination. Sponsored by College of Engineering, 226 Riggs Hall, 7:30 a.m. - 5 p.m.
- 3 -- Football: Wake Forest (Parents' Day), here, 1 p.m.
- 4 -- Trip to Six Flags. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 4 -- Free Flick: "Deliverance." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 7 -- Speaker: Bob Uecker, sportscaster for ABC "Monday Night Baseball." Sponsored by Speakers Bureau, Brackett Hall Auditorium, 8 p.m. with reception following. Open to the public, no admission charge.
- 7 -- English Hour Reading: Dr. Richard A. Underwood. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 7 -- Soccer: University of South Florida, here, 3 p.m.
- 8 -- Dinner Theatre: "Jenny the Mail-Order Bride." Sponsored by University Union, Edgar's, buffet style dinner at 6 p.m., play at 7:30 p.m. University I.D. and proof of age required, ticket prices to be announced.
- 9-10 -- Coffeehouse: Kirk Edwards. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I. D. required, 50¢ donation.
- 10 -- Declamation Contest. High school students recite poetry in different languages for prizes. Sponsored by Languages Department, Daniel Hall, 8 a.m. - 3 p.m. Participation open to high school students and teachers.
- 11 -- Free Flick: "Thief Who Came to Dinner." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 12 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 12-17 -- Play: To be announced. Presented by the Clemson Players, Daniel Hall Auditorium, 8 p.m. nightly except for 3:30 p.m. matinee on Thursday.

CALENDAR OF CAMPUS EVENTS (continued)

Open to the public, no admission charge.

- 13-14 -- Conference: 13th Annual Clemson Turfgrass Conference. Co-sponsored by Extension Service, Horticulture Department and Carolinas Golf Course Superintendents Association. Holiday Inn, open to professional turfgrass managers, registration fee will be charged.
- 15-17 -- Bus Trip to Notre Dame Game. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 15 -- Basketball: Athletes in Action, Littlejohn Coliseum, 8 p.m.
- 17 -- Day Trip to Stone Mountain. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 18 -- Free Flick: "Hunchback of Notre Dame." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 18 -- Children's Literature Symposium. Sponsored by English Department and College of Liberal Arts. Daniel Hall Auditorium and Strode Tower, 8:30 a.m. until mid-afternoon. Open to adults working with children and children's literature, \$5 registration fee.
- 19 -- Concert: Prague Chamber Orchestra with piano soloist Hans Richter-Haaser. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by Student Use Card, season tickets, or individual tickets on sale at gate.
- 21 -- Thanksgiving holidays begin after last class.
- 22 -- Flights home for Thanksgiving. Contact University Union Travel Center for details, 656-2461.
- 26 -- Classes resume.
- 26-12/7 -- Room Change Period. Submit application to Housing Office, 8 a.m. - 4:30 p.m.
- 27 -- Concert: Ruth Cauble, pianist. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 30 -- Concert: Son Seals Blues Band. Sponsored by University Union, Clemson House Ballroom, 8 p.m. Open to the public, ticket prices to be announced.
- 30-12/1 -- Basketball: IPTAY Invitational Tournament, Littlejohn Coliseum, 7 and 9 p.m. nightly.

DECEMBER 1979

- 2 -- Free Flick: "The Graduate." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 5 -- English Hour Lecture: Dr. Milton S. Van Hoy. Sponsored by English Department,

CALENDAR OF CAMPUS EVENTS (continued)

Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.

5 -- Basketball: USC, Littlejohn Coliseum, 9 p.m.

6 -- Concert: Clemson University Chorus Christmas Concert. Sponsored by Music Department, Clemson First Baptist Church, 8 p.m. Open to the public, no admission charge.

8 -- Basketball: Baptist College, Littlejohn Coliseum, 2 p.m.

10 -- Examinations begin.

11-12 -- Conference: 6th Annual Dairymen's Conference. Sponsored by Dairy Science Department, Clemson House, registration 9 a.m. Dec. 11. Open to all interested persons.

15 -- Basketball: Rider College, Littlejohn Coliseum, 2 p.m.

17 -- Basketball: Georgia Southern, Littlejohn Coliseum, 8 p.m.

20 -- Mid-Year Graduation, Littlejohn Coliseum, 11 a.m.

20 -- Army and Air Force Commissioning Exercises. Sponsored by Aerospace Studies and Military Science Departments, location and time to be announced. Open to the public, no admission charge.

21 -- Dorms close at 8 a.m.

JANUARY 1980

2 -- Basketball: UNC, Littlejohn Coliseum, 8 p.m.

6 -- All residence halls open at 10 a.m.

7 -- Orientation, new students.

8 -- Registration, all students.

9-10 -- Farm Credit Seminar. Sponsored by Agricultural Economics and Rural Sociology Department and Production Credit Association - Federal Land Bank Association. Clemson House, 1 p.m. Jan. 9 until noon Jan. 10.

9 -- Basketball: Duke University, Littlejohn Coliseum, 8 p.m.

10 -- Classes begin regular schedule.

14 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.

15 -- Concert: Peggy Rostron, pianist. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.

CALENDAR OF CAMPUS EVENTS (continued)

- 17 -- Distinguished Chemical Industry Business Seminar: Mr. Robert J. Dille, Director of Corporate Purchasing-Production Materials, Eli Lilly & Co. Sponsored by Chemistry and Geology Department, Earle Hall Auditorium, 1:25 p.m. and 131 Brackett Hall, 4:30 p.m. Open to the public, no admission charge.
- 19 -- Basketball: Virginia, Littlejohn Coliseum, 1 p.m.
- 22 -- Performing Artist Series: "An Evening with Muriel Bach." Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public, tickets are \$1.50 at the door, \$6 for entire series. Details at Union Information Desk.
- 23 -- English Hour Lecture: Dr. Elisa K. Sparks. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 23 -- Basketball: Furman University, Littlejohn Coliseum, 8 p.m.
- 28-2/8 -- Room Change Period. Submit application to Housing Office, 8 a.m. - 4:30 p.m.
- 28 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 29 -- Concert: The Gregg Smith Singers. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by Student Use Card, season tickets, or individual tickets on sale at gate.
- 31 -- Basketball: Georgia Tech, Littlejohn Coliseum, 9 p.m.

FEBRUARY 1980

- 6 -- French Play. Sponsored by Languages Department, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 6 -- Basketball: Wake Forest, Littlejohn Coliseum, 8 p.m.
- 7 -- Performing Artist Series: Phyllis Lamhut Dance Duo. Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public, tickets are \$1.50 at the door, \$6 for the entire series. Details at Union Information Desk.
- 9 -- Basketball: Maryland, Littlejohn Coliseum, 3 p.m.
- 12 -- Concert: Joanne Cohen, violinist, and Ruby Morgan, pianist. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 16 -- Basketball: NC State, Littlejohn Coliseum, 2 p.m.
- 18 -- German Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 19 -- Concert: New Orleans Philharmonic Orchestra. Sponsored by Clemson University

CALENDAR OF CAMPUS EVENTS (continued)

Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by Student Use Card, season tickets, or individual tickets on sale at gate.

- 20 -- English Hour Lecture: Best graduate English paper of 1979, winner to be announced. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 23 -- Basketball: UNC-Asheville, Littlejohn Coliseum, 2 p.m.
- 25 -- Concert: "Opera Highlights" with Boris Goldovsky, commentator and pianist, and vocal quartet. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by Student Use Card, season tickets, or individual tickets on sale at gate.
- 25-3/1 -- Play: Gemini by Albert Innaurato. Presented by the Clemson Players, Daniel Hall Auditorium, 8 p.m. nightly except for 3:30 p.m. matinee on Thursday. Open to the public, no admission charge.
- 27-3/14 -- Room Reservation Period. Submit application to Housing Office, 8 a.m. - 4:30 p.m.
- 27 -- Baseball: Georgia, here.
- 28 -- Baseball: Western Carolina, here.
- 29 -- Deadline for receiving applications for Michelin Undergraduate Study Grant in France. For more information, contact the Languages Department, 201 Strode Tower.

MARCH 1980

- 1 -- Tiger Drill Meet. Sponsored by Aerospace Studies and Military Science Departments, Littlejohn Coliseum, 8 a.m. Open to the public, no admission charge.
- 1-2 -- Baseball: Appalachian State, here.
- 3 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 3-4 -- Baseball: James Madison, here.
- 7-9 -- Baseball: East Tennessee State, here.
- 9 -- Eaton-Freeman Piano Competition. Sponsored by Music Department, Daniel Hall Auditorium, 3 p.m. Open to the public, no admission charge.
- 10 -- German Play. Sponsored by Languages Department, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 10-11 -- Baseball: UNC-Wilmington, here.
- 11 -- Concert: Won-Mo Kim, violinist, and Despy Karlas, pianist. Sponsored by

CALENDAR OF CAMPUS EVENTS (continued)

Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m.
Open to the public, no admission charge.

- 12 -- English Hour Lecture: Dr. H. Morris Cox. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 12-13 -- Baseball: The Citadel, here.
- 13-15 -- Meeting: Philological Association of the Carolinas. Sponsored by English Department and Languages Department, Strode Tower and Daniel Hall.
- 13 -- Distinguished Chemical Industry Business Seminar: Mr. Clifford E. Oman, Executive Vice President, National Distillers and Chemical Corporation. Sponsored by Chemistry and Geology Department, Earle Hall Auditorium, 1:25 p.m. and 131 Brackett Hall, 4:30 p.m. Open to the public, no admission charge.
- 14 -- Spring holidays begin after last class.
- 14 -- Baseball: Wake Forest, here.
- 15-22 -- Spring Break Trip to Daytona Beach. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 15-22 -- Spring Break Cruise to the Virgin Islands. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 24 -- Classes resume.
- 25-27 -- Baseball: Ohio State, here.
- 25 -- Clemson Area Continuing Education begins. Call 654-2139 for more information.
- 28 -- Performing Artist Series: National Theater of the Deaf. Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public, tickets are \$1.50 at the door, \$6 for the entire series. Details at Union Information Desk.
- 31-4/1 -- Baseball: Howard University, here.

APRIL 1980

- 3 -- Concert: Clemson University Chorus Tour Concert. Sponsored by Music Department, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 3 -- Baseball: Georgia Tech, here.
- 5 -- Baseball: North Carolina, here.
- 5 -- Livestock Judging: Future Farmers of America State Contest. Co-sponsored by Agricultural Education and Animal Science Departments, brick barn across S.C. 76 from Tri-County TEC, 11:45 a.m. - 3:30 p.m. Open to the public,

CALENDAR OF CAMPUS EVENTS (continued)

no admission charge.

- 5 -- Little International Livestock Show. Sponsored by Animal Science Department and Block and Bridle Club, brick barn across S.C. 76 from Tri-County TEC, 9:30 a.m. - 5 p.m. Participation open to college students and 4-H and FFA members.
- 6 -- Baseball: NC State, here.
- 7 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 7 -- Baseball: Francis Marion, here.
- 8 -- Concert: Clemson University Concert Band Tour Concert. Sponsored by Music Department, Littlejohn Coliseum, 8 p.m. Open to the public, no admission charge.
- 9 -- Honors and Awards Day. Classes suspended at noon.
- 9 -- Air Force and Army ROTC Honors and Awards Ceremonies. Sponsored by Aerospace Studies and Military Science Departments, Daniel Hall, 4 p.m. Open to the public, no admission charge.
- 14-19 -- Play: To be announced. Presented by the Clemson Players, Daniel Hall Auditorium, 8 p.m. nightly except for 3:30 p.m. matinee on Thursday. Open to the public, no admission charge.
- 14-15 -- Baseball: South Carolina, here.
- 17-18 -- Baseball: Virginia, here.
- 18-19 -- Dionysia '80. Drama competition in French, German, Russian and Spanish by students from universities and high schools in the southeastern states. Sponsored by Languages Department, call 656-3393 for more information.
- 18 -- Engineer-In-Training Examination. Sponsored by College of Engineering, 226 Riggs Hall, 7:30 a.m. - 5 p.m.
- 19 -- Baseball: Maryland, here.
- 24 -- Concert: Clemson University Concert Band "Pops" Concert. Sponsored by Music Department, location to be announced, 8 p.m. Open to the public, no admission charge.
- 28 -- Examinations begin.

MAY 1980

- 3-4 -- Baseball: Virginia Tech, here.
- 9 -- Commencement, Littlejohn Coliseum, 11 a.m.

CALENDAR OF CAMPUS EVENTS (continued)

- 9 -- Air Force and Army Commissioning Exercises. Sponsored by Aerospace Studies and Military Science Departments, location and time to be announced. Open to the public, no admission charge.
- 10 -- All residence halls close at 8 a.m.
- 18 -- Residence halls open at 10 a.m.
- 19 -- Registration, first session summer school.
- 20 -- Classes begin, first session summer school.

JUNE 1980

- 3-6 -- Convention: 53rd Annual Convention of the S.C. Association of Future Farmers of America. Sponsored by Agricultural Education Department, Daniel Hall Auditorium, begins 8 a.m. June 3 and ends 1 p.m. June 6. Open to the public, no admission charge. Expected attendance 400 plus.
- 25-26 -- Examinations, first session summer school.

JULY 1980

- 1 -- Registration, second session summer school.
- 2 -- Classes begin, second session summer school.
- 4 -- Classes suspended.
- 12 -- Classes meet.
- 26 -- Classes meet.

AUGUST 1980

- 6 -- Examinations, second session summer school.
- 9 -- Graduation, Littlejohn Coliseum, 11 a.m.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

AUG 20 1979

MINUTES OF THE FACULTY SENATE

May 8, 1979

The Senate Chamber

1. Call to Order

The meeting was called to order by President Fleming at 3:33 p.m.

2. Approval of Minutes

The Minutes for April 17, 1979 were approved without comment.

3. Committee Reports

A. Admissions and Scholarship - Senator Hester, Chairman, reported that the Committee had not met since the last Senate Meeting. Senator Hester announced a list of six major items that will be under consideration by the Committee during the coming year. They are as follows:

1. The development of a written Admissions Policy.
2. The size of the student population
3. Past and proposed recommendations for disadvantaged and remedial students.
4. The Senate's response to grade inflation
5. Faculty requests for a modified class schedule
6. The Senate's continuing concern with the University withdrawal period.

Senator Hester noted that six sub-committees will be set up to study these issues. Any Senator not on the Admissions and Scholarship Committee is invited to participate in any of these meetings.

B. Policy - Senator West, Chairman, reported that the Committee had not met since the last Senate Meeting. The Committee will meet on May 22 at 3:00 p.m. in 105 Freeman Hall. There has been no report from the Administration or from former Faculty Senate President Steirer on the status of the Faculty Constitution. Any Senator is welcome at any time to appear before the Committee when it is discussing the Constitution.

C. Research - Senator Smith, Chairman, was not in attendance. President Fleming noted that he, Senator Smith, Admiral McDevitt, and Mr. Ben Anderson had met concerning the proposed Copyright Policy. The problem appears to be the subjectivity of the reader when encountering certain vagaries of the language of the policy, especially with regard to the principle of protection of the University. McDevitt is comparing the proposed policy to those of the University of South Carolina, the University of Hawaii, and two other institutions. There does not appear to be much difference among them as to the substance of the language, and modifications of Clemson's policy along the consensus lines is anticipated. President Fleming feels that the Administration intends to be liberal toward faculty interests, once the wording problem is resolved. Senator Smith's Committee will review and re-draft the Copyright Policy during the coming year. Admiral McDevitt suggested that the Senate consider combining the present Patent and future Copyright Committees into a single committee for purposes of coordinating the University's approaches to both subjects.

- D. Welfare - Senator Baron, Chairman of the committee reported that he, President Fleming and Senator Turnipseed met with Mr. Darrell Hickman, Assistant Vice President of Budgets and Systems, and reviewed procedures with regard to the peer-faculty salary study. He reported that Mr. Hickman plans to consult with the following "peer" institutions: Georgia, Georgia Tech, The University of North Carolina (Chapel Hill), North Carolina State University (Raleigh), V. P. I., and Auburn University. Senator Baron feels that the University of Virginia should be included and the Welfare Committee agrees. He also noted that Vice President Barnette will take the results of the peer-group study to the Board of Trustees, but after that, the information's distribution is unknown. Senator Baron informed the Senate that, along with the salary data, the peer-group study will also address comparable fringe benefits for faculty. He also announced that Mr. Hickman had reported that the S. C. Commission on Higher Education has revised the formula for institutional budgets in such a way that a comparison among peer institutions will constitute a variable. Senator Baron solicited Senate opinion on what constitutes a "peer institution" and recommended that each college delegation submit to the Welfare Committee a list of four institutions, on a priority basis, which they feel ought to be included in the overall list of peer institutions. An overall list will then be drawn up based on a "weighted" tabulation of the results. Senator Baron also announced that his committee will survey the faculty as to their concerns which the Welfare Committee might address this year, such as the alledged difficulty of collecting Blue Cross claims. Finally, Senator Baron announced that Senator Lambert will chair a subcommittee on recommendations to modify the graduation exercises and on the granting of honorary degrees.
- E. Ad Hoc Committees - Senator Lambert reported for the Committee on Faculty Evaluation. They have been meeting for two years. The final report was finished on May 8. It will be printed in the University Newsletter. Specific recommendations are as follows:
1. The present three forms should be retained but renumbered as follows:
Form I: Evaluation Worksheet; Form 2: Professional Data Sheet; and to continue Form 3: Evaluation Summary.
 2. That certain forms be revised as follows:
 - a. Form I: Evaluation Worksheet:
 - (1) Delete all stipulated subtasks under the retained five categories of: I, Teaching; II. Research; III. Extension; IV. Librarianship; and V. Other Activities, so as to permit department heads and faculty members to agree on their own subtasks for greater flexibility.
 - (2) Replace existing scores in each category (a possible 1.0) with a scale ranging from 6-1 on each agree-upon subtask, the numbers representing in order: Excellent, Very Good, Good, Fair, Marginal, and Unsatisfactory.
 - b. Form 2: Professional Data Sheet: No change

c. Form 3: Evaluation Summary:

- (1) Under III. Performance, department heads will simply check one of: Excellent, Very Good, Good, Fair, Marginal, or Unsatisfactory.
 - (2) After faculty members see their evaluations, they are to indicate whether they concur with their evaluation. If they do not concur, they have ten calendar days to file a disclaimer with the department head which becomes a part of the evaluation.
3. That the schedule of procedure prescribed in the Dean of the University's memorandum of September 20, 1978 be simplified so that normally one conference each Spring between faculty members and department heads should suffice to discuss both Forms I and 3.
 4. That certain of the present Faculty Evaluation Procedures be revised to conform to the changes in forms noted above, particularly the Evaluation Worksheet and the Evaluation Summary.
 5. That the present Guidelines for Faculty Evaluation be retained with only minor changes.

Senator Lambert fielded questions concerning his digest of the report to wit:

Why is there a numerical rating on the "goal setting form" (#1)? (the answer was that this will not be filled out at that time, but later, for purposes of evaluation);

How will the overall rating be arrived at when each faculty member will have different variables to be considered? (the answer was that the final evaluation will be based on an overall percentage of the figure, six, with each variable score weighted by the department head);

Why the number, six? (there was no answer);

Is the rating, "fair" synonymous with the word, "satisfactory"? (the answer was, probably);

Who will review the evaluation? (the answer was the college dean, who can make additional comments. The faculty member also has ten days in which to file a demurrer. The faculty member may also see any comments made by the dean).

Will the form be used to determine the recipients of merit raises? (the answer was, presumably so!).

Other general comments were that the Ad Hoc Committee recommends no major changes to the evaluation system. It essentially addressed the principle bases of dissatisfaction. The second page is not changed at all. The numerical ratings have meaning only within a single department. A general discussion concerning the philosophical aspects of faculty evaluation and its uses ensued. The conclusion seemed to indicate that the major use of such evaluations should be

for determining salary increases and promotions. The sum of human knowledge not having been greatly enhanced, a motion to terminate the discussion was approved. The report was accepted unanimously.

Senator Thompson reported for the Committee on Policy Goals. He indicated that because of a paucity of time there was a lot of give and take among the members concerning the four broad areas which were determined (See Attachment A for the full report). A motion to approve the report was made. Before it could be voted on, a subsequent motion was made by Senator Hester to amend the report by changing the first sentence on page four to wit: the word "full" to read, "concurrent", and the words "in consultation" to be stricken. After a brief discussion, Senator Hester accepted the word, "co-equal" for the proposed word, "concurrent". His argument with regard to the overall amendment was (1) that co-equal authority was the proper role for the faculty to assume, (2) that this role would be more acceptable to the Administration, and (3) that the word "full" might dispell the spirit of the report and cause its purpose to be defeated. The amendment was approved unanimously. Senator Howard then moved to strike the entire statement on Faculty participation in University governance. He argued that it would cause the Administration to dictate the acceptance of the proposed faculty Constitution which has not yet been passed by the entire faculty. Senator Hester noted that the document does not do anything more than elaborate on the Constitution which is before the Administration already in a preliminary context. The document advises; it does not cause any action. The language is "should" not, "shall". Senator Rollin noted that the document is a basis for discussion only and that any changes in faculty governance will be made in accordance with already-existing structures. The question was called, and the motion to strike was defeated. After some minor typographical errors were corrected, the question to accept was called. The report was accepted.

F. University Committees - No reports.

4. President's Report:

1. Minutes of the Board of Trustees meeting, April 20-21, appear in the May 1 University Newsletter. In addition to the actions of the Board as summarized there, the Board confirmed and ratified award of a construction contract in the amount of \$409,777 to expand the student bookstore. It is hoped that renovation of the Library will be completed during September of this year.
2. The Executive Committee of the Board of Trustees nominated President Robert C. Edwards and State Senator L. Marion Gressette as candidates for honorary doctorates. The faculty committee (as defined on p. 53 of the Manual for Faculty Members) recommended unanimously that President Edwards be awarded the Doctor of Humanities degree and that Senator Gressette be awarded the Doctor of Laws degree. Citations of the recipients are attached.
3. On April 25, Senator Smith (Chairman of the Research Committee) and I met with Admiral McDevitt and Mr. Ben Anderson, University Legal Counsel, concerning the proposed new Copyright Policy. We will cover details of that meeting under Committee Reports.

4. Dean Hurst reports that the Registrar will publish the criteria for honors in the May 1979 graduation program and in each program thereafter.
5. Those Senators who anticipate extended absences from the campus during the summer months should consult the policy on summer alternates (p. 77 of the Manual for Faculty Members).
5. Old Business - None
6. New Business - Senator Hester moved "that the Policy Committee review the new faculty evaluation process and that the President of the Faculty Senate advise Dean Hurst of our evaluation of the new forms." The motion was approved unanimously. Senator Hester then moved that "an Ad Hoc Committee composed of members of the Faculty Senate Research Committee, the Office of University Research, the Office of Grants and Contracts, and other interested faculty; all to be chosen by the Chairman of the Faculty Senate Research Committee, be formed and commissioned to review and recommend ways of assisting the research efforts of faculty from all segments of the University." The motion was challenged by Senator Turnipseed as to its timing. Senator Hester noted that since Mr. Hickman and others were currently looking into the question, and that, whereas they might be persuaded to consider these questions concurrently with the proposed committee, he therefore felt that the timing was propitious. The motion passed unanimously.
7. The meeting adjourned at 4:45 p.m.

Respectfully Submitted,



Edwin M. Coulter
Secretary

Senators Absent:

Agricultural Sciences: Smith

Education: Blanton

Engineering: Edie

EMC/lm

Enclosures

LAWRENCE MARION GRESSETTE

Senator Lawrence Marion Gressette, Chairman of the powerful Senate Judiciary Committee and President Pro Tempore of the Senate, has served the State of South Carolina and the Nation unselfishly in a career of public service that spans more than a half-century. Since his election to the South Carolina House of Representatives in 1924 and his election to the State Senate in 1936, he has maintained an unswerving dedication to the strengths of our governmental system and has provided the type of enlightened leadership needed for South Carolina to continue to grow.

Senator Gressette's talent is written into the heart of the organic and statutory law of South Carolina. Some highlights of his legislative accomplishments are: the revision and modification of the South Carolina Constitution of 1895, including a total reform of our judicial system, the "home rule" reforms, and adoption of a new article guaranteeing fiscal integrity in government; the support of a sound educational system in South Carolina and particularly the support of technical education, the expansion of vocational and special education programs, and continuing improvements in higher education; the establishment of the State Forestry System, which is a model for the entire Nation; and the support of fiscal conservation in government operations, which has helped South Carolina maintain its Triple A rating in the nation's financial markets and saved the State millions of dollars in capital improvement bonds.

The Senior Senator from Calhoun was born in Orangeburg County on February 11, 1902. He was graduated from St. Matthews High School and the University of South Carolina with an LL.B. degree in 1924, the same

year he began his legislative career as a Democrat from Calhoun County. In 1970 he was awarded the J.D. degree from USC and in 1977 received an LL. D. degree.

In the State Senate, Senator Gressette also serves as Vice-chairman of the Committee of Education, Chairman of the Committee on Interstate Cooperation, and is a member of the Governing Board and the Council of State Governments. In addition, Senator Gressette has served as Chairman of the Senate Education Committee and the Senate Committee on Military Affairs. As Chairman of the Senate Education Committee, he has served on the Board of Trustees at the University of South Carolina and Winthrop College, as well as the Board of Visitors at The Citadel while he was chairman of the Committee on Military Affairs. Since 1925 the Senator has been a delegate to state conventions, and in 1952 he was an alternate to the National Democratic Convention and in 1956 was a delegate.

In 1975 Senator Gressette was honored for his work for the mentally retarded by the naming of the Calhoun County Child Development Center the "Marion Gressette Center" in Cameron, South Carolina. Also, March 6, 1977, was officially proclaimed by Governor James B. Edwards as L. Marion Gressette "The Grey Fox" Day in South Carolina. The Senator has also been honored by his colleagues through the hanging of his portrait in the chambers of the State Senate and the dedication of the Senate office building in his name.

Senator Gressette is married to the former Florence Howell, and they are the parents of one son, Lawrence Jr., who is a graduate of Clemson and the University of South Carolina Law School.

The law of South Carolina is a dynamic force in our society. That the law lives and, in turn, breathes life into our communities is largely to the credit of Senator Lawrence Marion Gressette.

ROBERT COOK EDWARDS

Robert C. Edwards, eighth president of Clemson University, has presided during the University's greatest era of achievement, growth and service to the people of South Carolina, the region and nation. A native of Fountain Inn, Dr. Edwards began his association with Clemson University in 1929 when, at the age of 15, he came to campus as a freshman. He graduated in 1933 and began a career in textile management. At the height of his success, he was tapped in 1956 as Clemson's first vice president for development. When President Franklin A. Poole died in 1958, he was named acting president. In 1959 he was elected president by the Board of Trustees.

During the Edwards presidency, the University has completed an astonishing, but well-planned growth from military school to fledgling civilian college to major university. Under his leadership Clemson has invested more than \$94 million in new facilities, and there is an additional \$18.3 million in new projects on the drawing boards — a total of more than \$112 million since 1956. He personally has awarded 70 percent of the institution's 40,000 conferred degrees, including all of its doctorates, associate of arts degrees and virtually all of its master's degrees.

The quality of Clemson students is reflected in the 1978 freshman class, which scored more than 100 points better than the national average and 200 points above the South Carolina average on the standardized Scholastic Aptitude Test. Almost 800 of the 2,020 freshmen met requirements for some kind of advanced academic standing.

During President Edwards' tenure the number of faculty members has increased from 291 to 967, while the number with terminal academic degrees has risen from 32 to 68 percent of the total. Clemson operates today with a budget of

\$94.8 million compared with \$5.6 million in 1955. To President Edwards goes the lion's share of credit for negotiating changes in the Hartwell Reservoir project in the late 1950s that prevented irreparable damage to the University, as well as saving 800 acres of priceless agricultural land.

In 1963, a landmark year for Southern higher education against a backdrop of violence and disruption on other campuses, Clemson met the challenge of desegregation orderly and peacefully, setting a model for the rest of the country. The Saturday Evening Post labelled Clemson's action, and President Edwards' accomplishments, "Integration with Dignity."

During the Edwards era, Clemson has solidified its role as a partner of the people. The institution has perfected its undergraduate program, developed its research and public service capabilities to the highest quality, and served as the State's most important vehicle for bringing knowledge from the campus and applying it to problems confronting people.

Recognizing the need for continued excellence and wishing to honor President Edwards for his career of outstanding service to Clemson, the Board of Trustees has established a permanent endowment of not less than \$1 million, known as the Robert Cook Edwards Endowment for Excellence in Science and Technology.

President Edwards, who retires June 30, is married to the former Miss Louise Odom. They have two children, Robert C. Edwards Jr. of Hendersonville, N.C., and Mrs. Nancy Reid of Jacksonville, Ala.

President Edwards has received Honorary Doctor of Laws degrees from The Citadel and Wofford College and currently serves as a director of the Duke Power Company and Dan River, Inc.

ATTACHMENT A

Ad Hoc Committee on Policy Goals

Final Report

May 8, 1979

Stassen Thompson, Chairperson
Myra A. Armistead
William Baron
Phillip B. Burt
Gordon W. Gray
Donald L. Ham
Mary A. Kelly
Roger B. Rollin
Robert W. Rouse
Samuel G. Turnipseed
Joseph L. Young

FACULTY SENATE POSITION PAPER
ON UNIVERSITY PRIORITIESPreamble

The major role of the university is the acquisition and transmission of knowledge. The constituency of the university is not limited to its students and faculty. It extends beyond the campus to a much larger population which looks to the university for academic, intellectual, and cultural leadership, and for practical assistance and guidance.

The Faculty of Clemson University represents a substantial and unique resource. That resource must be made available to the citizens of the state, to their representatives in the state legislature, to local governments, and to public administrators at all levels. As a land grant institution and state university, Clemson can and should be the focal point for research into and discussion of those issues which affect the citizens of South Carolina - anticipating and defining problems, exploring alternative solutions, and disseminating new knowledge and insights. Such activities can and frequently do have nationwide and even international implications and effects.

The responsibilities and roles of the university are complex and are constantly changing. And it is mainly the faculty of the university who, by virtue of their expertise and experience, must accept and fulfill these responsibilities and carry out these roles. The history of higher education in the United States amply demonstrates that, to carry out the mission of the university, the faculty - without whom there is no university - must participate in and assume significant responsibilities for determining the objectives and priorities of the university. No university has established itself among the top ranks without such involvement.

The areas of concern to the faculty of a university are many. Of special concern to the Clemson Faculty are the matters of:

- 1) faculty participation in university governance;
- 2) faculty compensation (salaries and fringe benefits);
- 3) the funding of programs and essential units;
- 4) the intellectual and cultural environment of the university.

Each of these will be considered in turn.

Policy Statement on Faculty Participation in University Governance

In his will, Thomas Green Clemson wrote:

...I desire to state plainly, that I wish the Trustees of said institution to have full authority and power to regulate all matters pertaining to said institution - to fix the course of studies, to make rules for the government of same, and to change them, as in their judgment experience may prove necessary (*italics added*).

Clearly the ultimate responsibility for managing Clemson University rests with the Board of Trustees. While recognizing as much, the Faculty nevertheless maintains that the time for changing the "rules of the government" of the University has arrived.

In the past the faculty of Clemson University has played some part in establishing some University policies, however their role, historically, has been strictly an advisory one - subject always to review and validation by the Administration and the Board of Trustees. But the Clemson of today and tomorrow may not always be best served by procedures which served the Clemson of yesterday. The Faculty believes that for Clemson to become a university of the first-rank - in the fullest meaning of that term - and a center of learning in South Carolina and the Southeast, its faculty must be endowed with the authority, and must accept responsibility, for exercising governance over those aspects of the university which historically have been the province of faculty in the best and oldest institutions of higher learning. Such authority and its concomitant responsibilities must be real and should be clearly defined. The following are of particular importance:

- 1) the Faculty should participate equally with the Administration in making decisions relative to the objectives and responsibilities of Clemson University;
- 2) the Faculty should have co-equal authority and responsibility for establishing academic policy at both the undergraduate and graduate levels;
- 3) the Faculty should have joint responsibility with the Administration for establishing College and University entrance and continuing enrollment requirements;
- 4) faculty members of committees, including the Undergraduate and Graduate Councils, promotion and tenure committees, and faculty research committees, should be selected: (a) according to procedures determined by the faculty (b) from the faculty only (c) and by the faculty concerned.

Although these represent the specific major concerns of the Clemson University faculty, the overriding concern is that the participation of the faculty in the governance of the University shall be binding rather than advisory.

Policy Statement on Faculty Compensation

Clemson University faculty are significantly under-compensated relative to faculty at peer institutions. In addition, over the past few years faculty salaries have not kept pace with wages and salaries of non-agricultural workers in South Carolina. It is inevitable that the University's ability to retain outstanding faculty - and hence, some of its best students - will be impaired if the deficiencies in compensation are permitted to continue. In the best interests of the University community and of its broader constituency, a program to correct inequities in compensation be launched immediately. This program should include, but not be limited to:

- 1) a commitment to achieve and maintain salary levels and fringe benefits commensurate with those of peer institutions;
- 2) development of an ongoing policy designed to prevent real income losses due to inflation;
- 3) efforts to maintain an appropriate balance between merit increases and across-the-board compensation.

Faculty should have input into and be regularly informed of the Administration's program to meet these goals.

Policy Statement on Funding of Programs and Essential Units

The funding of University support units and the general support of individual programs throughout the University are in need of improvement; for example:

- 1) essential units such as the Library and the Graduate School (and including the Office of University Research) must be funded at levels sufficient for Clemson University to be able to compete on even terms with its peers;
- 2) support items (such as sabbaticals and other professional activities) must be better funded so that the staff of individual units can maintain and increase their professional activity and expertise;
- 3) budgets for Instructional Equipment must undergo steady improvement;
- 4) the utilization of space and the setting of priorities for the physical growth and development of the campus must be effected so as to take into account the professional needs and aims of faculty.

Policy Statement on the Intellectual and Cultural Environment

A first-rate university will be characterized by an atmosphere which fosters a continuous exploration of intellectual issues and a high level of cultural activity. Such an environment is conducive not only to teaching and learning, but to the involvement of the citizenry within the university's region, not excluding leaders of business, industry, and government. Such an environment is a necessary complement to the academic, social, and athletic aspects of university life.

That the intellectual and cultural environment of Clemson has not received an emphasis commensurate with that of other aspects of the University's life is suggested by, among other things: the low priority given to the creation of a Performing Arts Center; the absence of an intellectually respectable University Lecture Series; the very limited availability of funds for visiting artists and performers; and the absence of a University Film Series.

The Faculty, accordingly, urges that:

- 1) administration, faculty, and students be organized to plan a university-wide program for upgrading the intellectual and cultural life of Clemson University.

- 2) immediate and high priority be given to the construction of a Performing Arts Center.

MINUTES OF THE FACULTY SENATE

June 19, 1979

The Senate Chamber

1. Call to Order

The meeting was called to order by President Fleming at 3:35 p.m.

2. Approval of Minutes

The Minutes for May 8, 1979 were approved without comment.

3. Committee Reports

- A. Admissions and Scholarship - Senator Grubb, Chairman, had no formal report. He announced the next meeting of the Committee to be held at 3:30 p.m. on Tuesday, June 26, at 303 Hardin Hall. He stated that his goal as the new Chairman was to conduct a general overview of all Admissions and Scholarship policies instead of pursuing a piecemeal approach to the issues as indicated by former Chairman Hester last month (see May Minutes). He felt that there are apt to be changes in these policies in the near future and that an overall study would enable the Committee to provide better and more timely input. He solicited the advice of any Senator on problems relating to Admissions and Scholarships.
- B. Policy - Senator West, Chairman, presented three reports. The first dealt with Faculty Evaluation Procedures (See Attachment A). In this regard, he noted the following changes from the Ad hoc Committee report submitted in May (see May Minutes.):
- 1) There is new language in paragraph 3 of the Form 2 procedures;
 - 2) there is a change in the rating schedule from six variables to five
 - 3) there is no change in Form 2;
 - 4) the "Purpose" paragraph of Form 3 is reworded in order to tie the evaluation more closely to promotion, tenure and merit raise decisions;
 - 5) there is agreement that specific items under the five major categories of evaluation be left blank;
 - 6) there is a suggested numerical range to define the five substantive performance ratings (Very Good, Good, Satisfactory, Marginal, and Unsatisfactory);
 - 7) there is now an additional step wherein the faculty member can read the Dean's evaluation and file a disclaimer to it as well as to the Department Head's evaluation.

Senator West noted that the Senate has until August to review these proposed changes but he hopes to have a Senate consideration and vote on the matter during the July meeting. He asked the Senate to remember that they have three plans to choose from: the existing plan; the recommended plan by the Ad hoc Committee; and the Policy Committee plan indicated above. Senator Thompson opinioned that he preferred the old

plan, feeling that the present confusion surrounding its use would be easier to undo than the introduction of a whole new plan. Senator Rollins countered that the newest plan protects the faculty better, especially with regard to the additional faculty review step. An objection was raised with regard to the change in the numerical scoring (from the 1 - 100% to the 1 - 5 scale). Senator West responded that, since this is a "check list" type of evaluation, it needs to be simplified in order to be more workable and that, whereas the old form was not that bad, it did open up too much difference between departmental approaches to the evaluation scales. The briefer scale (1 - 5) would tend to make Department - to - Department operations more uniform. Senator Rollins added that the category "Excellent" was omitted because of the propensity of some evaluators to reserve this accolade for the rarest levels of achievement while others use it indiscriminately - the problem being essentially semantic. In response to a question concerning the reduced number of blank lines under the various categories of evaluation on Form I, Senator West noted that there can be any number of such lines in the final form, but his typewriter could only accommodate three. Senator West also responded to a question concerning the method of determining the final score where several categories of evaluation are used. When asked whether a Dean could change a Department Head's evaluation, Senator West noted that he could, and that this is why the additional step has been added wherein a faculty member may review a Dean's comments on his form. He also noted that the Ad hoc Committee made a similar recommendation in its report. A motion to accept the report and to discuss it at the next meeting was made and seconded. It passed unanimously.

The Policy Committee has also discussed issues relating to tenure and merit raises. They will seek to have Dean Hurst change the Faculty Manual to allow for faculty members to waive the confidentiality of their departmental evaluations in order for faculty advisory committees to have this information when making recommendations on tenure and promotions. (See attachment B).

A general discussion on the pros and cons with regard to waiver ensued. The President concluded that the matter warranted further study.

A third report was made concerning a review of the Majority and Minority report of the Ad hoc Committee to Review a Proposed New Constitution for the Faculty and Faculty Senate. The report was placed on the current agenda under New Business.

- C. Research - Senator Smith, Chairman, reported that on June 18, there was a meeting on the proposed Copyright Policy and the resolution on the creation of an Ad hoc Committee to recommend ways to facilitate the research efforts of the faculty. Senator Smith indicated that the Committee is somewhat confused as to what Senator Hester had in mind in the latter resolution (see the May Minutes), since the University Research Council apparently already does this and it includes faculty members as participants. Senator Smith indicated that the Committee will not proceed further on this matter until they get a clearer idea of the issue raised by Senator Hester.

D. Welfare Committee - Senator Baron, the Chairman, was not present. A spokesman for the Committee noted that the Faculty Salary Survey (Peer institutions) by Mr. Darrell Hickman, (see May Minutes) has been completed, and it will soon be compiled and turned over to Dean Hurst. It will be distributed later, but Senator Baron has not yet seen it. President Fleming announced that he would look into the matter. Senator Worm inquired as to whether anyone on the Welfare Committee had looked at the overall Grievance Policy of the University. He was particularly concerned about the recent request for faculty members to read and sign a statement of consent to a rather complicated new State Employees Grievance Policy. A lengthy discussion ensued during which the following points were made:

- 1) There are apparently two grievance procedures available to the faculty. The one described in the Faculty Manual for Clemson Faculty, and the State procedure for all State employees.
- 2) the document to be signed by Clemson faculty concerns changes in the State procedure.
- 3) it may cause changes to be written into the Faculty Manual, but this is unclear.
- 4) when the issue of changes in the State policy arose last year, the Welfare Committee indicated no interest in the matter.
- 5) the best move now would be to check and see if we have lost anything in the new State procedures, and whether substantial changes will ensure in the Faculty Manual, but it would be wise to do this cautiously at the present time in view of past Senate actions and possible future actions by the State Legislature.

The President will look into the matter. A motion was made to commit this matter to the Welfare Committee for further study. It passed unanimously.

E. Ad Hoc Committees - No Reports

F. University Councils and Committees - No Reports.

G. President's Report:(See attachment C). With regard to item 1A, the President noted that this could prove to be expensive and that it has been proposed that the University be content with verification of the last degree only. Concerning item 1B, he indicated an intention to monitor this closely to see what the benefits of the system will be. Concerning item 1D, he noted that he had raised this issue and that he is vaguely optimistic in this regard. Concerning item 3, he noted that the students named were very supportive of faculty priorities, especially in regard to a lecture series, the film series, the performing arts center and faculty compensation. Concerning item 5D, he noted that Vice President Thompson will chair an ad hoc committee to arrange for a social event in connection with Dr. Atchley's visit and the January visit by the Board of Trustees. Concerning item 5F, he stated that he could not usually take faculty members with him to his formal committee meetings with these administrators, so the action in 5F is the next best thing. There followed a spirited discussion of

item 1A, during which it was stated that the proposal to check the credentials of the faculty was ill-advised and an insult to the faculty. The operation of ferreting out bogus degree-holders is an administrative problem and should not require faculty initiation. If "clearance" is required, it is the obligation of the "clearor" rather than the "clearee" to provide information. It is offensive enough to be called "employees"; if this is so, let the "employer" check our bono fides. Faculty members have already provided these documents once, and once is enough. How often does Dean Hurst expect to do this? The consensus seemed to be this whole matter should be rejected by the faculty as a whole, and a resolution was prepared for the current agenda under New Business. The President was asked, in regard to item 1C, whether there had been any discussion of existing programs. The answer was that some had been discussed, but the discussion was not substantial. The President promised to keep the Senate informed. With regard to item 1E, the President was asked what the Deans' interests were. The answer was that they were concerned about decorum during the ceremonies, parking near the Coliseum and the time the ceremonies consume. It was suggested that this matter be taken up by the Admissions and Scholarship Committee rather than by the Welfare Committee.

4. Old Business - There was none.

5. New Business

Salutary Letters. The Senate went into the Committee of the whole for the purpose of considering several salutary letters proposed by the President. The letter to Professor Macaulay was discussed and unanimously approved. (see Attachment D). The letter to Mr. Billy Rogers was discussed and unanimously approved (see Attachment E). A proposed letter to IPTAY was considered during an extended period of debate marked by Byzantine parliamentary maneuvering. It was eventually tabled in order to reconsider the wording. The letter to Mr. Melvin Long was discussed and unanimously approved (see Attachment F). The Senate reconvened.

Letters from President Edwards and Ex-Senate President Steirer thanking the Senate for gifts received from that body were read and accepted.

Resolution FS-79-6-1 was introduced by Senator Rollin to wit:

The Faculty Senate finds the requirement that all faculty submit through their department heads official transcripts of all work done for each degree impugns the integrity of the faculty as a whole and places demands of time, energy, and money upon the individual faculty member in order to carry out a responsibility which properly resides with the Administration;

and further, that the Senate will recommend that faculty members refuse, on principle, to comply with the directive in question.

The resolution passed by a large majority with little further discussion.

Senator Smith submitted the following resolution, numbered FS-79-6-2:

WHEREAS the proposed Clemson University Copyright Policy as revised by the Faculty Senate Research Committee has not been accepted by the Administration of Clemson University, and

WHEREAS substantial work has been done and considerable time has passed since November 1974, when a University Research Council Committee was appointed to draft a copyright policy, be it therefore

RESOLVED that the Faculty Senate requests that the Administration of Clemson University appoint a representative(s) of University Counsel, Office of the President, to assist the Faculty Senate Research Committee in the development of a copyright policy.

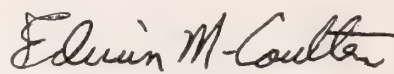
He explained that the purpose of the resolution was to get some University Research Council assistance on the drafting of an acceptable copyright policy. The resolution was passed unanimously.

Senator West requested that the Senate go into executive session to discuss the report of the Ad Hoc Committee to Review a Proposed New Constitution for the Faculty and Faculty Senate (see Attachment G). A motion was made to allow twenty minutes for such a discussion, and it was approved. After the end of the executive session, a motion to include the report under discussion in the Minutes and to place it on the agenda for the next meeting was made and passed. It appears as Attachment G.

Professor Steirer, representing Senator Lambert, asked if there were any questions of him relating to his role on the Ad Hoc Committee aforementioned or on his Minority report. Several questions were asked and answered by him. Dr. Steirer was complimented for his Minority report by several Senators.

The Senate adjourned at 5:33 p.m.

Respectfully Submitted,


Edwin M. Coulter
Secretary

EMC:lm

Enclosures

Senators Absent:	Agricultural Sciences:	Bursey
	Architecture:	Young
		Webb
	Engineering:	Edie (substitute present)
		Baron
	Liberal Arts:	Lambert (substitute present)
	Nursing:	Kelly
		Kline
	Sciences:	Burt
		Schindler
		Snipes

FACULTY EVALUATION PROCEDURES

FORM 1 - EVALUATION WORKSHEET

Purpose: This form is to be used to record detailed evaluation of the faculty member by the department head for the purpose of ultimately deriving, through a systematic means, a narrative evaluation of the individual faculty member's overall performance.

Explanations:

1. Each faculty members' assigned duties and professional objectives for the year are categorized into teaching, research, extension, librarianship, and other activities such that the total effort equals 100%.
2. The department head, in consultation with the faculty member, identifies specific qualities and factors which are appropriate and necessary to define adequately the assigned duties and objectives. (See Guidelines for Faculty Evaluation for examples of the qualities and factors which might be identified.)
3. The department head shall, in consultation with the faculty member, determine if some qualities and factors should weigh more heavily in the evaluation than others. No change in established weighing of qualities and factors should be made without prior consultations with the faculty member. When used, relative importance for each major category should sum to 100%.
4. Performance should be indicated with a check mark under the appropriate rating description. Overall rating of performance for each major category should be indicated by a number from 1 to 5 which corresponds to the appropriate rating description.

FORM 2 - PROFESSIONAL DATA SHEET

Purpose: A form to be used by each faculty member to transmit an annual report of accomplishments to the department head. (The form need not be transmitted to college or university administration.)

Explanations:

1. Distribution of effort or work performed such as teaching (courses taught, etc.), research (projects underway), extension (field days, etc.), librarianship (reference work, etc.) and other activities are listed and/or described.
2. Major goals accomplished during the year are listed and/or described. Goals are the same as, but not limited to, those established in consultation with the department head at the beginning of the year.
3. Professional activities such as workshops or seminars attended, activities in professional organizations, publication of papers not associated with assigned duties, etc., are listed and/or described.
4. Other noteworthy activities of a professional nature are listed and/or described.

FORM 3 - EVALUATION SUMMARY

Purpose: This form is to be used to record the summary evaluation of the individual faculty member for transmission from department head to the college and university administration. The form will be an official document, with narrative and numerical evaluations. It serves the goals of faculty development and improvement, and of providing information relevant to questions of promotion and tenure and upon which merit salary increases shall be based.

Explanations:

1. A summary of the individual's assigned responsibilities and participation in other activities is presented.
2. A narrative evaluation is made which describes the individual's effectiveness, emphasizes particular strengths demonstrated, indicates the area(s) in which improvement is desired and suggests ways in which the individual can reach his/her highest stage of professional development.
3. Performance. The department head will check one: very good, good, satisfactory, marginal or unsatisfactory. The department head will then sign the Evaluation Summary and provide the faculty member an opportunity to read the evaluation.
4. A faculty member who does not concur with his/her evaluation by the department head shall have ten calendar days to file a disclaimer with the department head, which shall become a part of the evaluation.
5. The completed Evaluation Summary is forwarded for review by the appropriate Dean. After review by the Dean and the addition of comments and signature the Evaluation Summary is returned to the Department. At this time the faculty members are to see the completed Evaluation Summary and to indicate that they have read the reviewed evaluation. If the faculty member does not concur with the reviewed evaluation, he/she has ten calendar days in which to file a disclaimer. This disclaimer then becomes a part of the complete evaluation.

FORM 1: EVALUATION WORKSHEET

EVALUATION OF ACADEMIC PERSONNEL

Name _____ Academic Year _____

$$\frac{\% \text{ TOTAL RESPONSIBILITY} \times \% \text{ RELATIVE PERFORMANCE RATING}}{\% \text{ IMPORTANCE}} = \text{SCORE}$$

	%	%	VG	G	S	M	US
			5	4	3	2	1

I. Teaching and Related Duties* (___% of total responsibility)

_____	_____						
_____	_____						
_____	_____						

Overall Rating (Teaching) total

II. Research* (___% of total responsibility)

_____	_____	5	4	3	2	1	
_____	_____						
_____	_____						

Overall Rating (Research) total

III. Extension* (___% of total responsibility)

_____	_____	5	4	3	2	1	
_____	_____						
_____	_____						

Overall Rating (Extension) total

IV. Librarianship* (___% of total responsibility)

_____	_____	5	4	3	2	1	
_____	_____						
_____	_____						

Overall Rating (Librarianship) total

V. Other* (___% of total responsibility)

_____	_____	5	4	3	2	1	
_____	_____						
_____	_____						

Overall Rating (Other) total

TOTAL PERFORMANCE RATING _____

VG= Very Good G=Good S=Satisfactory M=Marginal US=Unsatisfactory

*For suggested Criteria see Guidelines for Faculty Evaluation

Evaluation completed by _____ Date _____



CLEMSON
UNIVERSITY

I have filed a disclaimer to the Dean's review.

ATTACHMENT B

June 19, 1979

Memorandum

To: Dean Hurst

From: The Faculty Senate

The Faculty Senate recommends that the following statement be appended to page 48 of the Faculty Manual (under "Personnel Evaluation Program," paragraph 5, following the first sentence of that paragraph):

Faculty members may waive the confidentiality of their completed Faculty Evaluation forms in order that said forms may be examined by departmental advisory committees on tenure and promotion.



FACULTY SENATE

PRESIDENT'S REPORT
June 19, 1979

1. The Council of Deans met on May 14 and June 11. They covered the following items of immediate importance to faculty.
 - a. Dean Hurst has asked the academic deans to verify by January 1, 1980 the credentials of all faculty. Dean Hurst essentially has asked that the deans require all faculty to submit through their department heads official transcripts of all work done for each degree the faculty member holds. An "official" transcript is defined as an original copy with an embossed seal of the degree-granting institution and reflecting the fact that the degree itself has been conferred on the faculty member.
 - b. Dean Schwartz reports that work on development of the Student Data Base is proceeding but is currently about three weeks behind schedule. When complete, the data base will be used for a variety of record-keeping chores, will facilitate the entire record-keeping process and will be accessible for faculty counseling of students on their academic programs.
 - c. At their June 11 meeting, the deans discussed at length post-secondary education in Greenville. Dean Hurst will compile the deans' comments in a report to be forwarded to President Edwards.
 - d. There seems to be a consensus of sorts among the deans that we should pursue a higher level of funding for international travel of University faculty and other personnel who travel on University-related business or participate in professional meetings related to their duties at the University. (Heretofore, as you know, many faculty and staff traveling on University business have had to defray major expense out of their own funds.)
 - e. The deans are interested in reviewing our commencement exercises format. I informed them that the Senate Welfare Committee haveplanned their own review of graduation ceremonies and would welcome any comments the deans may have as their work proceeds.

President's Report
June 19, 1979
Page Two

- f. I gave the deans copies of our report on University priorities and told them that the Senate would welcome their comments and support of the objectives we have listed. You may wish to follow-up on this matter with your deans.
2. The Educational Council met on May 25. At that meeting, President Edwards stressed certain points contained in the Governor's energy message delivered May 17. Specifically, as you may recall, the Governor has stated that he will seek an order from the State Budget and Control Board setting a target of 15 percent reduction in the number of miles traveled by all state vehicles (excepting law enforcement vehicles) and mandating all state agencies to implement plans to achieve this goal. The Governor also pointed out that the 55 mph speed limit will be strictly enforced and that state employees caught exceeding this limit in a state vehicle will be reported to their appropriate agency heads for disciplinary action. Agency heads are thus required to impose some kind of disciplinary code on this subject. The University, however, has not as yet determined what kind of disciplinary action is to be taken. (I have a copy of the complete text of the Governor's message for those who wish to read it.)
3. On May 30, I met briefly with Bob Fuzy, Student Government President, and Jeff Anderson, President of the Student Senate. They had been given copies of our report on University priorities for their information. They expressed their own personal support of the objectives we listed in the report and would like the opportunity to interact with us in pursuit of those objectives, as appropriate.
4. It appears that the Planning Council will pursue the concept of a University Performing Arts Center during the coming year.
5. The Senate Advisory Committee met June 7. The following matters came before the Committee.
 - a. Request for leave of absence from the Senate of J. C. Hester (beginning immediately and extending through Spring semester 1980) was received. His seat will be filled on a temporary basis by special election in the College of Engineering, the election to be held immediately.
 - b. Senator C. A. Grubb was appointed Chairman of the Admissions and Scholarship Committee to replace Senator Hester.

President's Report
June 19, 1979
Page Three

- c. J. L. Young, who has represented the Faculty Senate on the University Union Board during the past academic year, was reappointed to that post to serve during the academic year 1979-80. (This position was not on our original list of appointments to be made.)
 - d. President-elect Atchley has accepted our invitation to speak to the Senate at our August 28 meeting. He has received copies of our ad hoc committee report on University priorities, the proposed new faculty constitution and comments of the review committee.
 - e. Vice President Stassen Thompson has agreed to chair an ad hoc committee to plan for a social event following our August 28 meeting and a reception for the Board of Trustees in January during their meeting on campus.
 - f. Standing committees will begin shortly to identify those administrative officers within the University who deal with matters in the province of these committees. Thereafter, the committees will periodically invite these officers to meet with them informally for discussions of policies of mutual interest and to keep each other current on matters of mutual interest. It is hoped that this will enhance relations between administrators and faculty and facilitate an understanding of our respective viewpoints.
- 6. Vice President Thompson, Dean Hurst, Dean Anderson, Dr. Godley and I will visit the Experiment Stations September 4-6.
 - 7. Orientation for new faculty and staff will be August 16-17.
 - 8. I want to continue the tradition started by Bill Steirer of visiting periodically with faculty senators and faculty in the several colleges. Please let me know if you would like for me to meet with the senators in your college.

CLEMSON
UNIVERSITY

FACULTY SENATE

June 19, 1979

Hugh H. Macaulay,
Alumni Professor of Economics
Department of Economics
Sirrline Hall
Clemson University
Clemson, South Carolina 29631

Dear Professor Macaulay:

The Faculty Senate of Clemson University wishes to thank you for the diligence with which you served the faculty of the University as a member of the Screening Committee to select the new President of the University.

We recognize the great sacrifice which you made in terms of time and effort, at the expense of your other professional and leisure activities. It is to your credit that the process of selecting our new President proceeded so efficiently and with such thoroughness.

The entire University community is indebted to you for the way that you represented its various constituents, and the faculty in particular.

Sincerely,

Horace W. Fleming, Jr., President
For the Faculty Senate

ATTACHMENT E



CLEMSON
UNIVERSITY

FACULTY SENATE

June 19, 1979

Mr. Billy G. Rogers, President
Clemson University Alumni Association
Clemson University
Clemson, South Carolina 29631

Dear Mr. Rogers:

The Faculty Senate of Clemson University wishes to commend the Alumni Association on your overall record of achievement during the academic year 1978-79.

We note the substantial gains achieved by the Alumni Association in funding of academic scholarships and in the support given the University through over \$1,000,000 for faculty research and professorships. We also want to commend you for the level of alumni participation in giving which you and the staff of the Alumni Association have encouraged over the past several years. To have been chosen as a finalist in the U. S. Steel competition for overall improvement in alumni programs speaks well for the dedication of Clemson alumni, you, your fellow officers of the Association and your staff.

If we can be of service to you in your continuing efforts to serve the University, we hope that you will call on us.

Sincerely,

Horace W. Fleming, Jr., President
For the Faculty Senate

HWF/mgm

CLEMSON
UNIVERSITY

FACULTY SENATE

June 19, 1979

Mr. Melvin C. Long, Director
Department of University Relations
Clemson University
Clemson, South Carolina 29631

Dear Mr. Long:

The Faculty Senate of Clemson University notes with great pleasure receipt by the University Information Office of the Newsweek Grand Award for News and Information Writing for 1979.

That you have performed at such a consistently high level in this and previous competitions for this award attests to the dedication and diligence of your entire staff. This award represents a high honor for Clemson University and all of the academic and other programs which you have so well represented in the media and in your contacts throughout the state of South Carolina and the nation.

Our sincere congratulations to you, Mr. Cornwell and your entire staff in the University Information Office.

Sincerely,

Horace W. Fleming, Jr., President
For the Faculty Senate

ATTACHMENT G

February 22, 1979

MEMORANDUM AND REPORT

TO: Dean Hurst

FROM: Ad Hoc Committee to Review a Proposed New
Constitution for the Faculty and
Faculty Senate

I. INTRODUCTION

You have asked this Committee to "study and make any appropriate recommendations concerning" the proposed new constitution of the Faculty and Faculty Senate. We have interpreted our mandate broadly. We have studied the present and the proposed documents; we have examined the constitutions of some other institutions; we have heard from Dr. Steirer the motivations and views of those who propose a new constitution; and we have, of course, observed and participated in the relationships of the Faculty and the Administration for varying numbers of years. Our observations here are based on all these factors.

It should be noted that Professor Steirer serves on this committee ex-officio as President of the Faculty Senate. He has been extremely helpful as a resource person representing the views of the Senate, particularly the group who drafted the proposed revision. Obviously he cannot support all the views expressed herein, and the editorial "we" represents herein the administrative members of the committee.

Also to be noted is our awareness that, in including our views about faculty government in general and the prerequisites for its success, we go beyond a narrow interpretation of our mandate. We hope these inclusions are not intrusive; if they are, you may ignore them without damaging our sensibilities.

The basic difference between the present constitution and the proposed is the latter's assignment of sole legislative power in academic affairs to the Faculty. All subsidiary differences proceed from this fundamental one. Since we believe that this abrupt departure from a long-standing tradition of the academic world is unacceptable, we do not find it useful or, indeed, practicable, to give a point-by-point analysis of the proposed document. We have therefore concentrated on reasons why we cannot endorse the philosophical basis of the proposal.

II. GENERAL OBSERVATIONS

(A) First of all, it is not at all clear to us that there is at this time a mandate from the Faculty at large to replace the present constitution. The impetus for a complete replacement, we

understand, came entirely or almost entirely from a group within the Senate, acting within their prerogative, of course, but without apparent grassroots solicitation from the Faculty at large. According to our information, a recent poll of the Faculty on the question, undertaken by the Senate, achieved only a 20% response. Of this 20% replying, those in favor of the revision and those opposed to it were roughly evenly divided. Thus it appears that, of the several hundred faculty polled, about ten per cent definitely favor the proposed revision; about ten per cent are definitely opposed; and about eighty percent do not feel strongly enough even to answer a questionnaire.

(B) Our second general observation is that the present constitution and Faculty role is far more typical of the situation prevailing throughout the academic world than that envisioned by the proposed version. Although our investigations are limited, we are persuaded that most, indeed, nearly all, well-established institutions define faculty and administrative roles much as we presently do: that is, with the Faculty as an important partner in the academic endeavor, aiding and advising in policy making, but with final responsibility and authority vested in the President of the institution and his representatives. We go so far as to say that, if one excepts the University of South Carolina, whose faculty organization seems to have been a model for the one proposed here, we know no large institution which reserves sole de jure legislative powers in all academic matters to the Faculty. And while the University of South Carolina is an estimable institution, we are not certain that its academic stature or its tradition of faculty governance is of an order to constitute a compelling endorsement.

The more compelling circumstance, on the contrary, is that as best we can tell, most institutions with long histories of influential faculty participation in university government define faculty and administrative roles much as our present constitution does.

We believe that before any new constitution is considered, and before any extensive revision of the present document, many questions need to be resolved concerning present Faculty-Administration relationships. Do most Faculty really feel that only under a brand-new constitution can their legitimate aims in University governance be achieved? Is the present constitution so inherently faulty (despite its typicality) that a satisfactory working relationship between Faculty and Administration cannot be achieved under its aegis? Is the Clemson milieu so nearly unique that a constitution typical of most other universities cannot serve it? Are the real or alleged difficulties in present Faculty-Administration relationships owing to a weakness in the constitution or to imperfect human relations? If the latter, would a new constitution serve to remove difficulties, or perhaps even exacerbate them?

(C) A Note on Faculty-Administration Relationships

It is safe to say that every member of this Committee is convinced beyond question that a University Faculty should -- indeed, must -- have an influential voice in university governance, not merely in academic policymaking, but in most other aspects of operation as well. As administrators, we seek to implement this principle in operating our departments, and we recognize that we would ignore or discount faculty views only at our peril.

We think it simplistic, however, to assume that a new constitution would inaugurate an era of mature faculty governance and harmonious faculty-administrative relationships. The language of a constitution seems less critical than a high level of competence, good will, mutual respect, and cooperation in both sectors. Faculty must realize that de jure and de facto authority do not necessarily accompany each other, and that in confrontation the administration has the heavier artillery, no matter what a faculty constitution says. Administrators are obliged to realize that the faculty have real expertise in university operation and that their counsel cannot safely be ignored. Above all, communication between the two segments of the University must be conducted with civility, tact, and decorum -- notes which have not been universally in evidence.

In our deliberations we have examined constitutions of several other institutions with long histories of faculty participation in governance. We will refer here specifically to only two. At the University of North Carolina, where faculty influence in all phases of operation has been extremely strong for many decades, the constitution specifically empowers the Faculty "to consider reports from -- and to make recommendations to -- the Chancellor, faculty committees, departments, colleges, schools, institutes, and other units of the University, and the Faculty Council." At Yale, despite powerful de facto influence, the de jure basis for such power is so shaky that a Yale dean recently told one of us that he was not certain that a faculty constitution even exists. Rather, he said, the spheres of influence are defined by a long tradition of faculty participation, and the legal authority, if indeed there is one, consists, like the British constitution, of a long series of understandings and precedents. It is more nearly an "atmosphere" than a legal instrument. This is, in our opinion, an ideal state, and, we venture, exists wherever faculty governance is truly effective.

III. LEGISLATIVE POWER AND ADVISORY POWER

As noted earlier, the sticking point in the proposed version is the section of the preamble which would confer upon the Faculty "legislative authority in all matters pertaining to the standards of admission, registration, requirements for and the granting of degrees, the curriculum, instruction, research, the educational policies and standards of the University, and academic requirements for extra-curricular activities..." that is, in effect, all academic matters.

We find a number of difficulties inherent in the concept of vesting the Faculty with sole legislative authority in academic matters, particularly if only the Board of Trustees could veto their legislation. We also find a great many questions to be answered and agreed upon even if the concept were accepted.

(A) The Matter of Accountability. As faculty members ourselves, we know that a university faculty is an amorphous group of many kinds of individuals, not a monolithic entity. We like to think of ourselves and our fellow faculty as professional, objective, disinterested, idealistic pursuers of truth. We also tend to think of ourselves as uniformly competent, at least when we are arguing for our prerogatives. Realism, however, bids us accept that faculties and administrations alike are made up of the competent and the incompetent, the unselfish and the selfish, the reasonable and the unreasonable, the honest and the less honest. Administrators, however, can be made directly and individually responsible for their decisions, can be disciplined, shorn of authority, even readily removed. But how and by whom is a faculty of a thousand to be disciplined or made accountable and responsible for its joint decisions? How is a Senate of thirty-five persons to be admonished? The answer, in our observation, is that there is no effective way it can be done. We cringe when non-academic people propose an analogy between the task of operating General Motors and the task of operating a university, but there is at least one point they have in common: Effective management requires that authority be accompanied by accountability. It is not sufficient to assume as an act of faith that a faculty of a thousand or a senate of thirty-five will consistently subordinate self-interest to university welfare, or that it will consistently be informed enough to see all situations clearly. No more faith is to be placed in administrators, to be sure; the difference is that when an administrator is overcome by venality or for any reason muffs his job, both the Faculty and his superiors are waiting to pounce upon him.

(B) Authority and Efficiency. Even if the concept of vesting sole legislative authority in the Faculty were acceptable, the proposed constitution in its present form would not serve. Present university governance, vesting actual authority in an administrative hierarchy and assigning faculty an advisory role, has grown up over a century of operation; the roles of president, deans, department heads, and faculty are clearly understood. If authority to make the rules in matters academic were suddenly shifted, it would be necessary to redefine all these roles in great detail. The proposed constitution gives no help in this regard. No one, without detailed definitions or a slowly evolving tradition, can know precisely what should be considered "pertaining to" the long list of areas in which the Faculty asks legislative authority. Are departmental operating budgets matters "pertaining to" Instruction, since paper and chalk must be purchased? Could a dean grant a substitution in a course of study? Could a department head make a rule concerning office hours, since this pertains to Instruction? Could the Vice President for Academic Affairs veto a proposed new curriculum on the grounds that it is not needed? Could he remove an incompetent dean? These and a thousand similar

questions have ready answers at present, but they would become unanswerable until a whole lexicon of definitions and a whole library of operating manuals could be built up. The proposed constitution offers neither definitions nor any apparatus for formulating them. It might be agreed that the Faculty would make policy and the Administration would carry it out; but the divided authority and the impossibility of a complete operating manual would produce an unhappy polarization and atmosphere of confrontation far worse than anything we know. Realism dictates, further, the assumption that the Faculty, like most other groups, would interpret the term "legislative authority" to favor its own views, that is, as broadly as possible, and that there would be a constant stream of confrontations to be settled by the Trustees.

(C) The Role of the Board of Trustees. The Board of Trustees is the policy-making body of the University. We feel sure they have never wished to involve themselves in day-by-day operating policies in the academic area, and we fervently hope they never will. Yet if they are to be the direct supervisors of Faculty legislation, as proposed, they will perforce become involved -- perhaps we should say embroiled -- in internal university disagreements to the extent that each Trustee will have to make himself an expert in all facets of the academic operation, and will have to commit an amount of time and effort to the job that would be overwhelming. The provision of the proposed constitution naming the Board of Trustees as the only agency that can veto a Faculty-made policy or institute a policy counter to faculty wishes is, in our view, totally unrealistic, in the first place, and totally unwise, in the second place. The President must have authority to operate the University, following broad guidelines set by the Trustees. The Board of Trustees cannot and should not be made into an administrative body.

IV. A COROLLARY OBSERVATION

We have a suggestion about procedure if in the future the constitution is to be revised or replaced. It might be better for a joint Faculty-Administration committee to try to ascertain attitudes, define problems of relationships, discuss remedies, reconcile differences in philosophy, smooth out rough spots, eliminate ambiguities, anticipate objections, and so forth, before revisions are officially presented for review and adoption. After all, administrators are also members of the Faculty and have as great a stake in faculty welfare and harmonious relations as any other faculty members. We are somewhat discomfited by our necessarily negative role. We do not feel authorized to re-write the proposed constitution, particularly since we are convinced that the present one, perhaps with some revision, provides an adequate apparatus for development of appropriate faculty participation in policy-making. Consequently, we can only find fault. If representatives of Faculty and Administration had collaborated from the beginning, difficulties might have been reduced.

The aspect of the proposed document which we deplore most is its projection and cultivation of an adversary relationship of Faculty and Administration. Aside from occasional passing gestures to University welfare, the dominant tone is that of a labor negotiation.

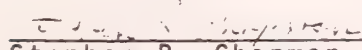
V. SUMMARY AND RECOMMENDATION

We are persuaded that adoption of the proposed new constitution in its present form would not be in the interest of the Faculty, the students, the Administration, the Trustees, or the University as a whole; that it would not automatically achieve its purpose of assuring the Faculty an appropriate voice in University affairs; that it would not promote harmonious relationships between Faculty and Administration but would on the contrary ensure confrontation and polarization; that it would not contribute to the efficient operation of the University but instead would create an unwieldy and ill-defined apparatus for academic policy-making.

We urge instead that Faculty and Administration work together (rather than separately) to examine the present role of Faculty in academic policy-making and to seek to enlarge it.

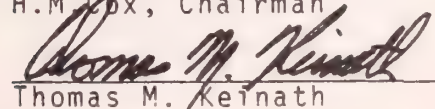
The Faculty, we believe, should pursue its de jure advisory role with pride, aware that even where faculty governance is strongest the advisory function is the rule rather than the exception; aware also that its collective convictions, appropriately formulated and forcefully expressed, can indeed exert a persuasive influence more powerful than any de jure legislative authority that could reasonably be hoped for.

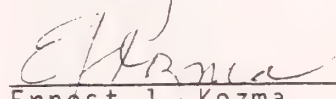
Administration, likewise, has the obligation to exercise its authority with tact, responsibility, and restraint; to eschew paternalism; to realize and admit a responsibility to Faculty as well as to Trustees; to solicit and give heavy weight to Faculty views on all academic and most other University business; to consider seriously and sympathetically all proposals from the Faculty; and, when it feels it cannot follow Faculty advice, to explain its reasoning fully, promptly, and openly.

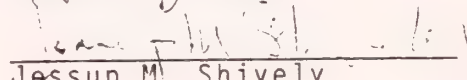

Stephen R. Chapman


Rex L. Cottle


H.M. Cox, Chairman


Thomas M. Keinath


Ernest J. Kozma


Jessup M. Shively

*
William F. Steirer, Jr.

(*Dr. Steirer appends hereto a separate minority report of his own views.)

College of Liberal Arts

DEPARTMENT OF HISTORY



May 9, 1979

MEMORANDUM

TO: Dean Hurst

FROM: William F. Steirer ^{WFS}

RE: Minority Report: Ad Hoc Committee on University Governance

The following points illustrate my main concerns with the majority report previously submitted to you. I think it is important for me to emphasize that while I represented the Faculty Senate and the Faculty on this committee, nothing I say in here binds the Senate, the Faculty or any president of the Faculty Senate to the same opinion.

(1) In asking the committee to "study and make any appropriate recommendations concerning the proposed new constitution of the Faculty and Faculty Senate," I believe that you provided the committee with the opportunity to recommend compromise proposals that would help to bridge the gap that exists between faculty and administration expectations and interests in university governance. By interpreting the mandate given the committee so narrowly that only recommendations on the proposed constitution would be entertained, that opportunity has been lost. Indeed, the majority endorses (page 5) the notion that a joint Faculty-Administration committee should "try to ascertain attitudes, define problems of relationships, discuss remedies, reconcile differences in philosophy, smooth out rough spots, eliminate ambiguities, anticipate objections, and so forth before revisions are officially presented for review and adoption." Although the majority obviously believes that the committee cannot act in this way at this time, I disagree. It is precisely to do those things that the majority says must be done by some Faculty-Administration committee, that this committee was called into being.

I embrace the idea of forming joint Faculty-Administration committees to discuss issues of university governance because no opportunity for fruitful discussions between faculty and administration should be passed up when the appropriate time is reached. But the appropriate time for such discussion is at the point when the Faculty Senate has developed a document ready to be presented to the Faculty for satisfaction (as in this case).

(2) At several points the majority has declared its confidence in the present faculty constitution and has suggested that no mandate for change of that constitution exists among the faculty. The source for that belief seems to be the abortive referendum on the Constitution and By-Laws conducted in February of 1978. On that occasion the issues that provoked controversy and prompted negative feelings among faculty were all By-Laws provisions,

Memorandum, Dean Hurst
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- a. removing the vote from faculty members serving as academic administrators;
- b. excluding instructors from the ranks of faculty; and
- c. reapportionment questions.

Those controversial provisions have since been dropped, but the By-Laws are not the problem here.

The preamble of the Constitution (the critical area where the philosophy of legislative power for the faculty is expressed) has been approved by the Faculty Senate on six separate occasions with no more than one dissenting vote at any time. The earliest occasion was October, 1977, the most recent, February, 1979. That the Faculty Senate, the only representative body of the Faculty, in the past two years has overwhelmingly endorsed the principle of "legislative authority" in academic matters is clear. That endorsement must be considered as the only significant representative of faculty opinion that is known on a continuing basis.

(3) It is true that at present no "crisis" exists in the area of Faculty participation in university governance, but the lack of such a "crisis atmosphere" offers an opportunity to discuss philosophical differences in an atmosphere where reason and light can prevail. But the lack of a "crisis" does not mean that reasons for a fuller and more comprehensive role for faculty in university governance do not exist.

- a. Some university councils and committees do not meet for years at a time. What appears on paper to be an adequate mechanism for Faculty participation, in practice does not materialize. This past year, for example, the Research Council, the Extension Council, the Landscape and Site Development Committee, and the History and Archives Committee never met. The Affirmative Action Committee met once, for the first time in three years. Several of those councils and committees that do meet are totally ineffectual, having been given little to do -- the University Planning Council is a case in point. Responsible Faculty members who look forward to serving their colleagues and their University in an effective manner become frustrated by the inaction.
- b. On several occasions in recent years the Faculty Manual has been breached for reasons that to faculty indicated how little regard is given to Faculty participation in University governance. While the administrators responsible for those decisions obviously thought that their reasons were good and compelling ones, Faculty Senators did not agree. Indeed, the critical point here is not that the Faculty Manual was not observed on these occasions, but that Faculty opinion was not solicited in the present constitutional system.

- c. The apparent and steady erosion of Faculty prerogatives vis-a-vis that of students has made many Faculty members doubly concerned about the role that they are playing and should play in university affairs. Faculty members believe that they constitute the most important part of the University but see no evidence that other components of the University acknowledge this. The Gator Bowl ticket allocation disturbance of 1977 bears this out. The lack of a specific faculty allocation for Gator Bowl tickets was deemed an insult by faculty members and crystallized the feelings of frustration, resentment and anger that had been suppressed.

The frequent use of the term "employees" to describe Faculty angers many (as my mail after the R. C. Edwards Endowment Fund campaign shows), for it seems to demonstrate a lack of sensitivity for the faculty's feelings of professionalism and uniqueness.

- d. These feelings of frustration, resentment and anger that have surfaced on certain occasions have been nowhere more obvious than in Faculty attitudes toward the Presidential Selection Process and the solicitation for the R. C. Edwards Endowment Fund. Faculty members are suspicious of administration intentions, wary of administration actions and fearful of retribution should they fail to act in appropriate ways. I do not share these attitudes and have tried vigorously to combat these attitudes during the past year. The fact remains, however, that such attitudes are prevalent and must be confronted. Full participation by faculty members in the ongoing policy-making processes of Clemson University is certainly one way, and in my opinion the most effective way, of combatting such divisive notions.

(4) It is, indeed, over the question of how much participation the faculty should and must have in creating and initiating policy ("making policy") that the most controversy has arisen. The words "legislative authority" have been particularly upsetting to the majority of the committee and other administrators because to them the words apparently suggest that exclusive power would rest with the Faculty. Actually, the only power that "legislative authority" confers is the power to make policy regarding academic matters subject to the veto by the executive branch of the University -- the academic administrators -- and subject, as well, to the ability of the executive branch to interpret and execute the policies established by the Faculty.

What is being sought is the exclusive authority to initiate and create policy, not the power to impose policy or the power to enforce policy. That power to initiate and create policy would only apply to academic matters. In other matters pertaining to faculty welfare the Faculty asks only for the power to recommend and review which is nothing more than what the Faculty now possesses.

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(5) The majority of the committee describes the proposed constitution as one which would leave those responsible for making policy unaccountable for their decisions. Quite to the contrary, the proposed constitution would make those making policy more accountable than ever before because they must accept the consequences of their decisions in a way that is not now possible. Certainly under the present mechanism for faculty participation, accountability is notably lacking. The Faculty does not elect representatives to University councils and committees, and while college deans do appoint Faculty members to those councils and committees, they point out that they have no control over their appointees. What is created, therefore, is a set of people who are not accountable to anyone. There should be no room in a system of University governance for participants who are accountable to no one. The proposed constitution would change that by making all participants responsible to those who select them.

(6) The majority of the committee states that all roles at Clemson are clearly understood (page 4). I do not believe this. The roles played by deans, department heads and Faculty in University governance are constantly changing, being subject as they are to varying and shifting individual interpretations. It seems as self-evident to me as the opposite apparently does to the majority that the only thing certain about how roles are defined within Clemson's system of governance is the uncertainty of the definitions. I might add that in the proposed constitution no effort is made to present such definitions because it was felt that a constitution where broad governmental responsibilities and jurisdictions are outlined was not the appropriate place to define specific roles.

Another objection that the majority of the committee cites is the need for new operating manuals and "whole lexicons of definitions" to be produced under the new constitution. To the best of my knowledge such manuals and lexicons exist now only in the minds of administrators and are functional only in so far as individuals agree to interpret positions similarly and to act in concert. Nothing, therefore, would be lost by asking all parts of the system of governance to reinterpret and redefine their participation in that system.

I certainly agree that faculty members would interpret "legislative authority" to favor their views, for the proposed constitution does not aim at changing human nature. But as I understand Clemson's faculty, there exists no monolithic "faculty" viewpoint on any academic matter. The confrontations that would be likely to surface would occur among faculty members of different disciplines, departments and colleges. But that is as it should be. Faculty members have a substantial vested interest in the academic program of Clemson - in fact, the most substantial vested interest - and should, therefore, have the primary responsibility for confronting issues and resolving conflicts within the academic program.

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(7) How typical among American Universities Clemson's present system of University governance is, I do not know, but I do not think that this is particularly important. We are especially, and justifiably, proud at Clemson to exclaim how unique we are as an institution. It is fitting that an institution proud of its unique heritage and mission create a system of governance which is suited to its own needs and people. I think that in the proposed constitution we have done that and the significant issue is how well the system established under that constitution will function at Clemson University.

(8) The majority observes that "in confrontation the administration has the heavier artillery, no matter what a faculty constitution says." While this is an unfortunate choice of words because of the images of raw power that is evoked, it is probably an accurate assessment of the situation that now prevails at Clemson. It prevails precisely because de jure and de facto authority do reside in the same hands. The new constitution could not alter the manner in which de facto authority is exercised. Faculty members after all, have other duties as important as making policy and otherwise being involved in governance while administrators have a primary concern with implementing policy and exercising authority.

To deny this would be to deny the obvious. What the proposed constitution would accomplish, therefore, would be to place the faculty in a position where de jure authority would be shared constitutionally with administrators (who as noted earlier would continue to possess the veto power) while the nature of de facto authority would be little changed.

(9) The majority of the committee feels that the proposed document projects and cultivates "an adversary relationship between Faculty and Administration" and that "the dominant tone is that of a labor negotiation." Nothing could be further from the intent of the Faculty Senate in promoting the proposed constitution. Rather than creating an adversary relationship, the proposed constitution would help to bring about a new feeling of harmony and cooperation between Faculty and Administration by providing the Faculty with the opportunity to be responsible participants in University affairs. Adversary relationships are most likely to occur when a disproportionate amount of power rests with one party so that "in confrontation the administration has the heavier artiller" The qualities that the majority describes in the last paragraph (page 6) do not negate the imbalance of power that the Administration now holds and end the danger of creating an adversary relationship in the present circumstances.

I fail to see how "collective convictions, appropriately formulated and forcefully expressed, can ... exert a persuasive influence more powerful than any de jure legislative authority that could reasonably be hoped for." (page 6) I have never known any group to prefer de facto authority over de jure, or to fail to desire to legitimize the power that they hold or hope to hold. Persuasion in no way can substitute for authority.

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(10) With the acceptance of this constitution as an integral part of the system of governance at Clemson University, the Faculty would assume the kind of responsibilities in academic affairs that their training, inclinations and experience has prepared them to assume and that as full and equal participants they are entitled to assume. With the assumption of these responsibilities, faculty members will be able to offer their expertise and talents to the University at a level and in a way not previously possible to the mutual advantage of all. Subordinate participants, as faculty have been encouraged to view their role in the present system, are relatively reluctant to accept the responsibility for new ideas and programs. This waste of talent would be remedied by making Faculty members full partners in the operation of the academic side of the University.

All that Faculty members desire is to receive the opportunity to serve Clemson University in the capacities that their training, inclinations and experiences make possible. The proposed constitution would provide that opportunity and enable the University to use the services of 900 plus Faculty members more effectively and more meaningfully.

Revision

The Constitution of the Faculty of Clemson University

Preamble

No less than its predecessors, the modern institution of higher learning is a guardian and interpreter of intellectual tradition. It is upon the competence, integrity, and devotion of its Faculty to professional ideals that the University must depend for success.

In order that this Faculty may more fully and effectively serve the University by participating in the establishment of policies, procedures, and practices, the Faculty, subject to the review of the Board of Trustees by whom these powers are delegated, shall possess legislative authority in all matters pertaining to the standards of admission, registration, requirements for and the granting of degrees, the curriculum, instruction, research, the educational policies and standards of the University, and academic requirements for extracurricular activities, and shall possess the power to recommend and review any item which affects Faculty welfare and appears in the Faculty Manual.

The Faculty may delegate certain of these powers and other powers to the Faculty Senate and to University Councils and Committees composed of faculty members elected by the appropriate departmental and collegiate Faculties. The faculty members serving in those capacities shall exercise the delegated legislative powers necessary for achieving the objectives of those councils and committees.

Article I

The Faculty

Section 1. Membership

The Faculty of Clemson University shall consist of the President of the University; the Dean of the University; the deans and directors of the colleges and schools; department heads; professional librarians; the teaching, research, and extension faculty with rank of professor, associate professor, assistant professor, or instructor; and such other members as may be duly elected as provided for in the By-Laws.

Section 2. Functions

The functions of the Faculty shall be to exercise legislative powers in academic matters; to be concerned with matters affecting the welfare of the corporate body and individual members; to approve candidates for degrees; to delegate those powers it chooses not to exercise directly to its Executive Committee, the Faculty Senate; to determine such other University councils and committees it deems necessary to carry out the mandates of this Constitution and to delegate the powers needed for the operation of these councils and committees; to receive reports from the Faculty Senate of its actions; to approve new members as provided for in the By-Laws; and to act on any other matters brought before it by the Faculty Senate or any faculty member.

Section 3. Officers

The officers of the Faculty shall consist of a chairperson and a secretary. The chairperson shall be the Dean of the University, or, in his absence, the President of the Faculty Senate. The Secretary shall be the Secretary of the Faculty Senate, or in his absence, a person appointed by the Chairperson.

Section 4. Meetings

Meetings of the Faculty shall be held prior to each commencement except the August one, and at such other times as deemed necessary by the Chairperson. Special meetings may be called by the Faculty Senate, ten percent of the Faculty, or the Faculty members of any University council or committee acting unanimously.

A simple majority of the Faculty shall constitute a quorum.

Article II

The Faculty Senate

Section 1. Definition

The Faculty shall elect from among its members an executive committee to be known as the Faculty Senate.

Section 2. Membership

The Faculty Senate shall consist of those members elected by the Faculties of the colleges and schools as provided for in the By-Laws.

Any member of the Faculty of a school or college shall be eligible for membership in the Faculty Senate excluding those with primarily administrative functions. For the purposes of this Constitution, the professional librarians shall constitute the Faculty of a school.

Section 3. Purposes

The Faculty Senate represents the Faculty of Clemson University in its negotiations and relationships with the administration of the University; acts as the primary advocate for Faculty interests at Clemson University, and promotes the welfare of the Faculty and its individual members.

Specifically, the Faculty Senate acts:

1. To protect the rights of faculty members to legislate academic policies and practices on the departmental, collegiate and University levels.
2. To recommend and review academic policies and practices on the University level.
3. To recommend and review any item which affects Faculty welfare and appears in the Faculty Manual.
4. To serve as a primary forum for the redress of Faculty grievances.
5. To recommend and review all matters concerning the working conditions and general welfare of the Faculty.
6. To promote and assert the Faculty position on issues of general interest within the University community.

The President of the Faculty Senate shall make an oral annual report to the Faculty at the May meeting and a written report at the same time. Special reports shall be made as necessary to keep the Faculty adequately informed.

Section 4. Officers

The officers of the Faculty Senate shall consist of a President, a Vice-President, a Secretary and a Parliamentarian. The President, Vice-President and Secretary shall be elected from among the members of the Faculty Senate as provided for in the By-Laws. The President shall appoint the Parliamentarian from among the members of the Faculty Senate.

Section 5. Committees.

The standing committees of the Faculty Senate shall be:

1. Nominating and Credentials Committee
2. Executive Committee
3. Welfare Committee
4. Academic Affairs Committee
5. Policy Committee

Special committees of the Faculty Senate may be appointed by the Nominating and Credentials Committee or by the President of the Faculty Senate with the consent of the Faculty Senate.

The composition of the standing and special committees and duties of the former are provided for in the By-Laws.

Section 6. Meetings

The Faculty Senate shall hold one regular meeting each month at a time determined by the Executive Committee. The schedule of the meetings for the year shall be announced by May 1, through appropriate channels. Special meetings of the Faculty Senate may be called by the President at any time with the approval of the majority of the Executive Committee.

Except for executive sessions, all meetings of the Faculty Senate shall be open to any member of the Faculty. Such visitors may be invited by any member of the Executive Committee to participate in particular discussions. The Faculty Senate may go into executive session by simple majority vote of the members present.

Any member of the Faculty may present any problem or suggestion to the Senate for its consideration, provided the member notifies the President of the Faculty Senate at least one week prior to the meeting.

A simple majority of the elected members of the Faculty Senate or their alternates shall constitute a quorum for the transaction of all business, except the election of Faculty Senate officers and the amending of the Constitution or By-Laws. For these two exceptions, two-thirds of the elected members only shall constitute a quorum.

Article III

Councils and Committees

Section 1. Definition

University Councils and Committees are established as deemed necessary by the Faculty to provide an effective means for Faculty participation in University governance, and are essential to the achieving of faculty interests.

Section 2. Membership

University Councils and Committees established by the Faculty are generally composed of faculty members, with such student representation and administration ex officio membership as may be desirable to further the purposes of the council or committee. The Faculty reserves the right to specify the method of selection of Faculty representatives to such councils and committees, and to delegate legislative authority only to such councils or committees composed in accordance with its wishes. Three principles shall govern the composition of such councils and committees: (1) Each College or School directly affected by the actions of the council or committee shall be represented by one faculty member; (2) The Faculty Senate shall be represented by one Senator where it deems desirable for liaison purposes; and (3) Faculty representatives shall constitute at least two-thirds of the council or committee membership.

Section 3. Chairman

The chairman of each council and committee shall be elected from the members at the first meeting of the year. The chairman shall arrange the agenda, appoint sub-committees, and call meetings as needed.

Section 4. Meetings

The chairman of each council and committee shall appoint the time and place of each meeting as needed. Except for executive sessions, all meetings of any council and committee shall be open to any member of the Faculty.

Section 5.

Nothing in the previous sections shall be construed as preventing the Faculty from taking such steps as are deemed necessary to protect Faculty academic and welfare interests so long as collegiate and departmental prerogatives are observed.

Section 6. Implementation

The Faculty will upon the acceptance of this Constitution direct the Faculty Senate to evaluate, and if necessary reorganize, the structure of existing councils and committees. Certain councils and committees may be judged by the Faculty Senate not to be of a Faculty nature and therefore not covered by Article III, Section 2. Until that evaluation and reorganization is completed the present structure will be retained with the present members serving the remainder of their terms.

Article IV

Rules of Order

The Faculty, the Faculty Senate and the councils and committees of the University shall conduct all parliamentary procedure in accordance with Robert's Rules of Order.

Article V

Amendment

The Faculty may amend this Constitution at either of the scheduled meetings prior to commencement during the regular school session or at any meeting called for that specific purpose. Approval shall be a two-thirds majority vote of the members present. A proposed amendment may be brought before the Faculty by either of two methods:

1. A proposed amendment accompanied by the signatures of at least ten percent (10%) of the members of the Faculty may be submitted in writing to the Dean of the University no later than one month prior to the Faculty meeting at which the amendment will be considered. The Dean will then publicize the proposed amendment at least three (3) weeks prior to the meeting, OR,
2. A proposed amendment may be submitted by at least ten (10) members of the Faculty to the Faculty Senate at a regular meeting of that body. The Faculty Senate must vote upon the proposed amendment no later than the fourth meeting following submission. A simple majority vote of the Faculty Senators present is required to forward the proposed amendment to the full Faculty. An approved amendment must be presented in writing to the full Faculty at least ten days prior to the Faculty meeting at which the amendment will be considered.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY



Vol. 19 No. 2

September 1, 1979

SUMMER COMMENCEMENT HELD FOR 508 GRADUATES

Summer commencement exercises were held August 11 for 508 graduates. President Bill L. Atchley, presiding over his first graduation, conferred 257 bachelor's degrees, 238 master's degrees, one education specialist degree and 12 doctoral degrees.

Saying that "a college degree is no guarantee of success in today's world," Clemson University's 1979 Alumni Master Teacher, Horace Fleming, challenged the new graduates to think and be creative with the educations they have earned.

"If the only reason you came to college was to earn more money, then I'm sorry to disappoint you," said the political science professor whom students named their most effective teacher last spring.

"The American Dream is fleeting," Fleming said. "It may never again be the same. As a nation we are consuming more than we are producing and, unless we act, we may not have very much to pass on to the generations that follow ours."

Calling himself nevertheless optimistic about America's future, the political scientist said he was less worried about fuel shortages than about "the shortages of human energy and ingenuity in our society today."

"I really believe we can lick the problems of shortages, but we need new ideas to do it," said Fleming.

"We should have taught you how to be good scientists, managers and humanists. But if we haven't taught you how to think, then we haven't taught you at all," he concluded.

Counting December and May commencements, Clemson has graduated 2,418 students this academic year.

COMPUTER-ASSISTED CAREER DEVELOPMENT SYSTEM AVAILABLE AT COUNSELING CENTER

The Counseling Center has recently acquired a computer terminal that will permit access to the South Carolina Occupational Information System (SCOIS). The SCOIS provides access to over 12,000 pages of occupational information covering 90 percent of the career opportunities available in South Carolina. The system is designed to provide students with the information necessary to explore, choose and plan for careers in a logical and systematic way.

Among the information available through the SCOIS is the following: descriptions of occupations and related duties and working conditions, the employment and advancement outlook, the physical and educational requirements, and a list of sources for more information. Additionally, the system contains detailed descriptions of two- and four-year colleges throughout the nation as well as information on educational programs required by specific career fields.

Beginning in September, the SCOIS will be linked to the Employment Security Commission Job Bank. This will provide instant access to job openings in and near South Carolina and will be updated daily.

The SCOIS would be especially helpful to those students unsure of a major and in need of additional career information. On the basis of interests, desired working conditions, employment outlook, salary, etc., students wishing to acquire accurate descriptions of job requirements

and local opportunities would find the system an invaluable resource.

The Counseling Center invites interested faculty and staff members to see the SCOIS demonstrated. Persons interested in the system or wanting additional information should contact Lucy Reddick at 2451. Also, students who would benefit from the use of this resource should be referred to the Counseling Center.

COLLEGE OF EDUCATION NATIONALLY ACCREDITED

The College of Education has been accredited by the National Council for Accreditation of Teacher Education (NCATE), according to Dr. Harold Landrith, dean of the college.

The accreditation covers all the college's graduate and undergraduate programs and is the culmination of a process begun last February when a group of 13 American educators representing NCATE conducted an intensive evaluation of the college.

Among the strengths cited by the NCATE team were the college's practice of requesting employers to evaluate graduates and its program of in-class, public school experience beginning in the freshman year and culminating with student teaching in the senior year.

Also cited was the passing rate of Clemson graduates taking the National Teacher Exam, a percentage that is highest among graduates of state-supported colleges and universities in South Carolina.

WORKSHOP OFFERED ON EFFECTIVE INTERPERSONAL SKILLS

A workshop on "Effective Interpersonal Skills" is being offered to University staff members by the Counseling Center on September 19 and 26 from 8:30 a.m. to noon in 200 Tillman Hall.

The workshop is designed to assist participants to optimize clear, accurate and open self-expression as well as to cope

creatively with interpersonal conflicts. Topics to be covered include: effective communication with co-workers; resolving conflicts with students, co-workers and supervisors; assertive responses to complaints, criticism and unreasonable requests; and the appropriate expression of feelings, opinions and beliefs.

Enrollment is limited to 15 participants, and interested persons are asked to call the Counseling Center at 2451 to sign up.

The Counseling Center staff is also interested in presenting the workshop "in-house" for various departmental office areas at convenient times and dates. Topics would be tailored to meet the perceived needs and unique circumstances of each employee group. The optimal group size would range from 8 to 15. Call for more information.

AGRONOMY AND SOILS

The following faculty members presented papers at the annual meeting of the American Society of Agronomy in Fort Collins, CO, August 5-10:

J. D. Maxwell (Prof) and H. L. Musen (Prof) presented "Sources of Resistance to *Meloidogyne arenaria* in *Glycine max* (L.) Men."

E. A. Rupert (Prof), A. Seo (former Ag Sci Asst) and K. W. Richards (former Grad Res Asst) presented "Trifolium Species Hybrids Obtained from Embryo-Callus Tissue Cultures."

V. L. Quisenberry (Assoc Prof) and Prof. Musen presented "Soybean Response to Subsoiling and Irrigation on Norfolk Sand."

J. R. Woodruff (Prof) presented "Soil Test Mn, Soybean Leaf Mn and Grain Yield as Influenced by Rate and Method of Mn Fertilization."

B. R. Smith (Assoc Prof) and Lisa Lepofsky (former Grad Res Asst) presented "Vaucluse Soils, Typic Fragiudults: I. Morphology, Physical, Chemical, and Mineralogical Properties."

Lisa Lepofsky and Prof. Smith presented "Vaucluse Soils, Typic Fragiudults: II. Micromorphology and Genesis."

BOTANY

The following papers were presented by members of the Botany Department at the American Institute of Biological Sciences at Stillwater, OK, August 13-17:

Lawrence A. Dyck (Assoc Prof) and Rebel B. Umphlett (Grad Stu) - "Influence of Exogenous Indoles on Internodal Cells and Isolated Walls of Chara Australis (Charophyceae)."

Edna R. Richardson (Grad Stu) and Prof. Dyck - "Indolic Hormones from Chara Zeylanica (Chapophyceae)."

Mark G. Dykes (Grad Stu) and Prof. Dyck - "Light Induced Chloroplast Migrations in Eremosphaera Viridis (Chlorophyceae)."

Douglas N. Markoff (Grad Stu) and Prof. Dyck - "An Ultrastructural Determination of Microfibrillar Orientation in Walls of Elongating Internodes of Chara Australis (Charophyceae)."

Jane E. Lawrence (Grad Stu) and Prof. Dyck - "Ultrastructural Development of Internodes in the Apex of Chara Australis (Charophyceae)."

Karen E. Manyak (Grad Stu) and Prof. Dyck - "Comparison of Cell Walls from Extinct and Extant Oospores of Charophytic Algae."

CHEMICAL ENGINEERING

J. M. Haile (Asst Prof) is co-author with P. M. Holland, H. J. M. Hanley (National Bureau of Standard, Boulder, CO) and K. E. Gubbins (Cornell Univ) of a paper, "A Correlation of the Viscosity and Thermal Conductivity Data of Gaseous and Liquid Propane," recently published in the Journal of Physical and Chemical Reference Data, 8, 559 (1979).

CHEMISTRY AND GEOLOGY

Keith McDowell (Assoc Prof of Chemistry) served as a visiting staff member at Los Alamos Scientific Laboratory from July 16 to August 13. Computations in nucleation theory and the interaction of powerful lasers with molecules were carried out. Prof. McDowell presented a seminar Aug. 10 entitled "Resummation in Many-Body Perturbation Theory: Application to the Incomplete Basis Set Problem."

H. G. Spencer (Prof of Chemistry) has received a grant of \$54,485 from NSF for a two-year investigation of "Sorption and Transport in Compatible Polymer Blends Above and Below the Glass Transition Temperature."

CIVIL ENGINEERING

Subhash C. Anand (Prof) attended the 87th Annual Conference of the American Society of Engineering Education held at Louisiana State University, Baton Rouge, June 25-28. He was the moderator of a session organized by the Civil Engineering Division of ASEE and was also elected as chairman of the Division's Committee #2, "Professional Practice and Relations with Technical Societies." In this capacity he will be responsible for organizing two sessions at the 88th ASEE Annual Conference to be held at the University of Massachusetts, Amherst, MA, in June 1980.

DAIRY SCIENCE

M. A. Barnes (Asst Prof), Lamar T. Blankenship (Grad Res Asst) and Joseph F. Dickey (Prof) attended the Interregional Workshop on Animal Reproduction held at Purdue University July 9-11. Prof. Dickey presented summaries on two areas of departmental research: "Morphological (Electron Microscopic) Changes During Prepubertal Development of Bull and Ram Testis" and "Histology, Histochemistry and Electron Microscopy of the Cow Reproductive Tract."

Kathy Bryan (Grad Res Asst), M. Elaine Richardson (Instr) and Prof. Dickey attended the Annual Meeting of Southeast Electron Microscopy Society (SEEMS) held in Athens, GA, May 24-25. Kathy Bryan presented a paper, "The Ultrastructure of the Developing Ovine Seminiferous Tubules," co-authored by Prof. Dickey and J. R. Hill (Prof). Prof. Dickey served as one of the judges for the Graduate Student Awards Competition.

FOOD SCIENCE

M. G. Johnson (Assoc Prof) was co-author with L. R. Beuchat (Assoc Prof, Univ of Georgia) of an invited review paper summarizing recent research on food microbiology in "Highlights of Microbiology, 1977-78," pp. 33-34, May 1979, published by the American Society for Microbiology, the professional society for microbiology with over 30,000 members world-wide. Prof. Johnson was an invited participant in a Gordon Research Conference on the "Microbiological Safety of Foods" held July 22-27 in Tilton, NH.

Prof. Johnson was an invited participant in Hill City, MN, August 12-16 in a workshop entitled "Educative Processes in Food Microbiology." He served as moderator for a session on "The Microbiology Laboratory: Essential or Expendable?" This workshop was sponsored by the Joint American Society for Microbiology - Institute of Food Technologists Committee on Food Microbiology Education of which he is a member.

HISTORY

Joseph L. Arbena (Assoc Prof) has published a review of Alex Perez-Venero, Before the Five Frontiers: Panama from 1821-1903 (AMS Press, 1978) in The Hispanic American Historical Review, 59:3 (August 1979).

INTERDISCIPLINARY STUDIES

J. B. Park (Assoc Prof), A. F. von Recum (Prof) and G. E. Gratzick (Grad Stu) have published a paper, "Pre-Coated Orthopedic Implants with Bone Cement,"

in Biomaterials, Medical Devices and Artificial Organs, 7 (1), 41-53 (1979).

Prof. Park also attended the Gordon Research Conference on Science and Technology of Biomaterials, Tilton School, Tilton, NH, July 16-20.

MATHEMATICAL SCIENCES

Clayton V. Aucoin (Prof) has accepted the chairmanship of UMAP's (Undergraduate Mathematics and Its Applications Project) Monograph Editorial Board.

Robert F. Ling (Prof) was an invited speaker at the workshop on "Using Computers to Help Teach Statistics," which was held at the University of New Hampshire, Durham, NH, Aug. 6-8.

Prof. Ling attended the annual Statistical Meetings of the American Statistical Association, the Biometrics Society, and the Institute of Mathematical Statistics, held in Washington, DC, Aug. 13-16. He was chairperson of a Business and Economic Statistics Session Aug. 13; chairperson of the JASA Invited Paper on Applications Session Aug. 14; and was a discussion leader at the Statistical Computing Section Roundtable luncheon Aug. 16.

Prof. Ling co-authored a paper with Amitava Mitra (former Grad Stu), "A Monte-Carlo Comparison of Some Ridge and Other Biased Estimators," which appeared in the Journal of Statistical Computation and Simulation, Vol. 9, No. 3, pp. 195-216.

Prof. Ling co-authored with Harry V. Roberts and George R. Bateman (Univ of Chicago) Exploring Statistics with IDA (The Scientific Press, 1979).

Prof. Ling co-authored with Harry V. Roberts (Univ of Chicago) IDA User's Manual (The Scientific Press, 1979).

POLITICAL SCIENCE

Harold Albert (Prof) published a review of Understanding Modern Government: The Rise and Decline of the American Political

Economy, by Edward S. Greenberg, in Choice, July/August, 1979.

Michael Morris (Asst Prof) will be on leave of absence during 1979-1980 as a research fellow at the Stockholm International Peace Research Institute, Stockholm, Sweden. Prof. Morris will be heading a research project on Third World navies.

Prof. Morris has published a book, International Politics and the Sea: The Case of Brazil (Boulder, CO: Westview Press, 1979).

Prof. Morris is the editor of a special double-length issue of Ocean Development and International Law: The Journal of Marine Affairs on 'Influence and Innovation in the Law of the Sea: Latin America and Africa' (Vol. 7, No. 1, 1979).

PROFESSIONAL DEVELOPMENT

Claude S. Simpson Jr. (Instr, IM and Asst Dir, Office of Prof Dev) is chairperson for the following seminars to be held on campus: "Performance Appraisal Workshop," Sept. 18-19; "Custodial and Maintenance Workshop," Sept. 24-25; "Low Cost Maintenance Control," Sept. 27-28; and "Positive Discipline," Sept. 26.

John J. Porter (Prof, Text) is course chairperson for a one and one-half day conference, "Volatile Organic Compound Emission Control," to be held at the Atlanta Airport Hilton Inn Sept. 18-19.

Jean L. Woodruff (Instr, IM) is chairperson for the following seminars to be held at the Clemson House: "Women in Management," Sept. 19; "Assertiveness Training," Sept. 20; and "Effective Expression," Sept. 21.

FACULTY PROMOTIONS ANNOUNCED FOR 1979-80

COLLEGE OF AGRICULTURAL SCIENCES

Promoted to Professor:

James C. Acton

James B. Aitken
Larry L. Bauer
Jere A. Brittain
William G. Brown, Jr.
Buddy L. Dillman
John A. DuRant, III
Robert L. Edwards
Danny O. Ezell
George E. Gramling
Robert G. Halfacre
Joseph J. Jen
James D. Maxwell
Raymond Noblet
James H. Palmer
Darrell L. Roberts
Marion L. Robbins
Horace D. Skipper
Daniel B. Smith
Terry C. Titus
Donald E. Turk
Robert E. Wright

Promoted to Associate Professor:

Gerald D. Christenbury
Wilton P. Cook
John W. Dick
Allen R. Ellicott
Joyce H. Jenkins
Emory V. Jones
Johnny W. Jordan
Judith S. Kline
Clyde T. Mounter
Ronald J. Thurston

COLLEGE OF ARCHITECTURE

Promoted to Professor:

Norman L. Book
Lamar H. Brown
Donald L. Collins

Promoted to Associate Professor:

John D. Jacques

COLLEGE OF EDUCATION

Promoted to Professor:

I. Carolyn Briscoe
Ralph K. Peden
D. Henry Pate

Promoted to Associate Professor:

B. Verner Burkett, Jr.

Promoted to Assistant Professor:

Benjamin L. Smith

COLLEGE OF ENGINEERING

Promoted to Professor:

John N. Gowdy
Frank W. Paul
John L. Prince
Paul B. Zielinski

Promoted to Associate Professor:

Elisha R. Baker
Barry P. Keane

COLLEGE OF FOREST AND RECREATION RESOURCES

Promoted to Professor:

William A. Shain

Promoted to Associate Professor:

Donald L. Ham
Richard A. Conover
Ann E. James

COLLEGE OF INDUSTRIAL MANAGEMENT AND
TEXTILE SCIENCEPromoted to Professor:

Holley H. Ulbrich
Edward A. Vaughn
John H. Marvin, Jr.

Promoted to Associate Professor:

Charles D. Wiggins
Alison C. Drews
Michael T. Maloney
John D. Hatcher

Promoted to Assistant Professor:

Thomas B. Maertens
Mark A. McKnew
Benjamin M. Hawkins

COLLEGE OF LIBERAL ARTS

Promoted to Associate Professor:

Frederick W. Shilstone
C. Harold Woodell
Margit M. Sinka
Christopher M. Sieverdes
Larry G. Peppers

Promoted to Assistant Professor:

Leonard T. Perry
Elisa K. Sparks

COLLEGE OF NURSING

Promoted to Associate Professor:

Mary Ann Kelly

Promoted to Assistant Professor:

Veronica F. Rempusheski

COLLEGE OF SCIENCES

Promoted to Professor:

John L. Ging
Joseph R. Manson
Gary L. Powell
Joseph L. von Rosenberg
David S. Snipes
Fred J. Stutzenberger

Promoted to Associate Professor:

James P. Jarvis
Ellis L. Kline
Richard R. Montanucci
Gayle P. Noblet
Edward B. Pivorun

ADDITIONAL NEW FACULTY AND STAFF, 1979-80

College of Agricultural Sciences

Atkinson, James B., Seed Certification
Specialist, Seed Certification Department;
B.S., Clemson University; Route 4, Box 264,
Marion 29571

College of Architecture

Caban, Jose, Associate Professor of Planning Studies; San Juan, Puerto Rico

Nocks, Barry, Associate Professor of Planning Studies; Greenville

College of Liberal Arts

Pittman, Debra B., Instructor in Speech; B.A., Appalachian State University; M.A., University of Georgia

Wentworth, William M., Assistant Professor of Sociology; B.A., Indiana University; M.A., University of Maryland; Ph.D., University of Virginia; Lot #24, Brook Street

White, Max E., Instructor in Anthropology; A.B., M.A., University of Georgia

College of Nursing

Whitman, Sallie V., Instructor in Nursing; B.S.N., Armstrong State College; M.S.N., Medical College of Georgia

Office for Business and Finance

Dalton, Roy Allison, Director of Continuing Education Center, Clemson House; B.S., M.S., Clemson University; Route 5, Box 200, Pickens 29671

MINUTES OF THE COUNCIL OF ACADEMIC DEANS MEETING, JULY 16, 1979

The Council of Academic Deans met July 16, 1979, in the conference room of Tillman Hall. Dean Hurst called the meeting to order at 9 a.m. with the following persons present: Dr. Cecil Godley (for Dean Anderson), Dean McClure, Dean Landrith, Prof. J. L. Edwards (for Dean Wilcox), Dean Box, Dean Trevillian, Dean Cox, Dr. Judith Chodil (for Dean Labecki), Dean Vogel, Dean Willis, Dean Schwartz, and Dr. Horace Fleming. Attending briefly were Vice President M. E. Barnette, Mr. Darrell Hickman, Mr. Jim Roberts, and Mr. Jim Shanahan.

Mr. Barnette explained the activities and

recommendations of the "Ad Hoc Faculty Compensation Committee" which was appointed by the Budget and Control Board to make recommendations to the Board concerning pay ranges for faculty members of the S. C. colleges and universities. Mr. Barnette served as a member of this committee and as a member of a sub-committee that was appointed to further study the subject and make recommendations to the committee. The final report of this committee stated that "the appropriateness of a proposed college or university faculty salary schedule must be assessed in the context of suitability for recruitment and retention of a qualified faculty" and recommended to the Budget and Control Board procedures that would become the basis for establishing faculty pay ranges.

Mr. Barnette has received a letter from Mr. Jack S. Mullins, director of the Personnel Division of the Budget and Control Board, advising that on June 12, 1979, the Budget and Control Board approved the committee report, and instructed the State Personnel Division to implement the committee's findings. Mr. Mullins indicated in his letter that probably the implementation of these recommendations would take place during late summer and early fall and we would work toward the development of a program to begin with the 1980-81 fiscal year.

Initially, each college and university will recommend to the Budget and Control Board a list of 10 institutions which shall comprise the peer group as typical of those in competition for faculty members. The 10 institutions shall be found in the Southern Regional Education Board group of states, must be located outside the State of South Carolina, and must be state-supported colleges or universities.

Darrell Hickman reported on a faculty salary survey that was conducted by his office in response to a request by the Board of Trustees, who had noted that Clemson's faculty salaries were low as compared to others in our region. Mr. Hickman stated that the survey will be presented to the Board of Trustees at the

meeting on campus July 20-21.

Darrell Hickman introduced Mr. Jim Shanahan and announced that he has been assigned to the Budget Office to work full time with Mr. Jim Roberts. Mr. Shanahan will be available to work with the deans and answer questions regarding budget matters.

Jim Roberts asked if the deans would like to receive working papers for the 1979-80 budget so they can get a head start, and then make whatever adjustments will be necessary when the Appropriations Bill is approved. Mr. Roberts stated that in addition to being involved with the 1979-80 budget, we have been requested by Columbia to submit a preliminary budget for 1980-81 by Sept. 7. It was the concensus of the deans that they should begin work on this year's budget as soon as they can be made available, so Mr. Roberts asked them to begin on the assumption that the appropriations will be the same amounts as last year. If we do not receive an increase in appropriations, there is a good chance that student fees will have to be increased to make up the difference. A student fee increase would need the approval of the Board of Trustees.

Dean Hurst requested the deans to send to him before the end of the week any special requests for funding to cover emergency situations that they foresee in their operating budgets for the coming year. Mr. Roberts hopes to get the budget information out to all offices by tomorrow, to be followed by more specific information by next Monday, with budgets to be completed by the middle of next week. There was a discussion about equipment needs and what funds might be available for 1979-80 equipment purchases.

Dean Hurst asked the deans to stand and observe a moment of silence in memory of Dr. Claud B. Green.

Dean Hurst reported that he has met with President Atchley to discuss several matters. Dean Hurst stated that President Atchley prefers to approach a particular problem or meet a need with an

interdisciplinary approach--having persons with expertise work together. He states also that President Atchley will consider the establishment of institutes. President Atchley will be meeting soon with the deans to discuss interdisciplinary cooperation and the establishment of institutes.

Dean Hurst requested the deans to send to him by Friday the number of new faculty, by department, that they expect in their colleges by the fall semester.

Dean Hurst reported that President Atchley has read the proposed revised Faculty Constitution and By-Laws but has not made any decisions on the matters. President Atchley plans to appoint a committee of faculty members and administrators to again review the document.

Dean Hurst said that Dr. Atchley has indicated an interest in meeting with small, representative faculty groups. Dean Hurst will set up a tentative schedule of rap sessions involving 12-25 persons per group from different academic areas. If the President approved, Dean Hurst will be in contact with the deans in this regard.

Dean Cox asked Dean Hurst if the term "Visiting Instructor" would be considered redundant. Dean Hurst agreed that it was and should not be used.

Dr. Fleming reported that President Atchley had requested him, as president of the Faculty Senate, to deliver the August 1979 commencement address.

Dr. Fleming inquired as to emergency procedures to be used in the event of a death or serious illness of a University employee. He stated that the Senate would like to set into motion some procedures for providing emergency assistance.

Dean Landrith reported that President Atchley has received a letter from the National Council for Accreditation of Teacher Education (NCATE) stating that all programs in the College of Education have been fully accredited. Dean Landrith added that we were the first to be

accredited under NCATE's new standards, and he expressed appreciation to all the deans who aided his college in this accomplishment.

Dean Landrith stated that although the renovation of Tillman Hall is slated to begin soon, the Tillman auditorium would be available for the August meeting of the General Faculty and Staff.

Dean Willis distributed the "University Faculty and Staff Orientation" schedule for August 16, 1979. He also distributed a booklet entitled "The Continuing Education Unit," which was published by the Southern Association. He reported that he had attended the first annual meeting of the Council on the Continuing Education Unit, to which Clemson University presently does not belong. Dean Willis said the Southern Association requires us to give CEU's, and we should make certain we are adhering to their requirements. He also requested the deans to review their programs closely to assure that the programs we offer are of high quality.

Dean Vogel suggested that someone should write a Resolution of Appreciation for the contributions of Dean Claud B. Green, and that the Resolution become a part of these

minutes and a copy be sent to Dean Green's relatives. Dean Hurst asked Dean H. M. Cox to write the Resolution.

Dean Trevillian explained the involvement of the Small Business Development Center of South Carolina. He explained that this program is being funded by the federal government and is being administered through schools of business throughout the country. In order to be funded, the government requires that a cooperative effort be developed among state colleges and universities. Four colleges in South Carolina are currently participating: Clemson, USC, Winthrop, and S. C. State College. Dean Trevillian stated that these four institutions together received \$100,000 for this year and it is hoped this will be increased to \$300,000 in October. Descriptive brochures were distributed.

Dean Hurst expressed optimism that the new year will be a good one for Clemson University as we all become more involved. The meeting was adjourned at 11:20 a.m.

Respectfully submitted,

Annette H. Kesler



JEROME REEL NAMED ACTING DEAN OF UNDERGRADUATE STUDIES

Jerome V. Reel, professor of medieval English history, has been named acting dean of undergraduate studies for the 1979-80 academic year.

A member of the History Department since 1963, he was appointed to the interim post by Victor Hurst, vice-president for academic affairs and dean of the university.

Reel succeeds Claud B. Green, a former professor of American literature, who served as dean of undergraduate studies from 1970 until his death last June.

A native of New Orleans, Reel studied architecture for three years at Tulane University before earning an undergrad-

uate degree in English and history at Mississippi Southern College in 1960. A year later he received the master's in history from Southern Mississippi, and in 1967 he received the Ph.D. from Emory University.

At Clemson he has served on the University's Speaker's Bureau, Honor Council, Faculty Senate and Undergraduate Council. In 1975 he was named Alumni Master Teacher by the student body.

Reel is also director and co-host of "Plots and Prologues," a series of radio programs examining history through opera which airs over South Carolina's public radio stations. The series is currently being considered for national distribution over the National Public Radio network.

Calendar of Campus Events

- 1 -- Trip to Sliding Rock. Sponsored by University Union, details and sign-up at Union Information Desk, University I.D. required.
- 1 -- Train Trip: Southern Crescent to Atlanta. Sponsored by University Union, details and sign-up at Union Information Desk, University I.D. required.
- 2 -- Waterskiing Clinic. Sponsored by University Union, details and sign-up at Union Information Desk, University I.D. required.
- 2 -- Free Flick: "Man Who Loved Cat Dancing." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 3 -- Placement orientation for seniors and graduate students from the College of

CALENDAR OF CAMPUS EVENTS (Cont.)

IM&TS. Sponsored by Placement Office, 301 Sirrine Hall, 4:30 p.m. Open to all students interested in a job after graduation.

- 4 -- Placement orientation for seniors and graduate students from the College of Forest and Recreation Resources. Sponsored by Placement Office, 113 F&RR Building, 3:30 p.m. Open to all students interested in a job after graduation.
- 5-7 -- Workshop: "Computer Programming in BASIC Language." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 5 -- Placement orientation for seniors and graduate students from the College of Engineering. Sponsored by Placement Office, 100 Lowry Hall, 4:45 p.m. Open to all students interested in a job after graduation.
- 5 -- Performing Artist Series: "Einstein the Man." A live, one-man stage presentation by William Landry on the life of Einstein. Sponsored by University Union, Daniel Auditorium, 8 p.m. Tickets may be purchased at the door for \$1.50 or from the Union as an entire series for \$6. Open to the public.
- 6 -- Placement orientation for seniors and graduate students from the College of Agricultural Sciences. Sponsored by Placement Office, P&AS Building, 7 p.m. Open to all students interested in a job after graduation.
- 7-8 -- Coffeehouse: Scott Doss. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.
- 8 -- Football: Furman University, here, 1 p.m.
- 9 -- Free Flick: "For Pete's Sake." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 9 -- Whitewater Rafting. Sponsored by University Union, details and sign-up at Union Information Desk, University I.D. required.
- 10-11 -- Workshop: "Effective Production Planning and Control and Inventory Management." Sponsored by Professional Development, call 656-2200 for more information.
- 10-21 -- Room Change Period. Submit application to the Housing Office, Mell Hall, 8 a.m. - 4:30 p.m.
- 10-14,-- Camping Program for Senior Citizens. Co-sponsored by Recreation and Park
17-21, Administration Department and the South Carolina Commission on Aging. Call
24-28 656-2477 for more information.
- 10 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 11-12 -- Workshop: "Troubleshooting in Dyeing and Finishing." Sponsored by Professional Development, call 656-2200 for more information.
- 11 -- Placement orientation for seniors and graduate students from the College of Sciences. Sponsored by Placement Office, 101 Kinard Lab, 5 p.m. Open to all students interested in a job after graduation.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 12-13 -- Workshop: "Increasing Purchasing's Effectiveness." Sponsored by Professional Development, call 656-2200 for more information.
- 12 -- Speakers Bureau Presentation: President Bill Atchley makes his first address to Clemson students. Amphitheater, 8 p.m. with reception following. Brackett Auditorium in case of rain. Open to the public, no admission charge.
- 12 -- Placement orientation for seniors and graduate students from the College of Architecture. Sponsored by Placement Office, 100 Lee Hall, 4 p.m. Open to all students interested in a job after graduation.
- 12 -- English Hour Lecture: Dr. Alan Schaffer. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 13 -- Placement orientation for seniors and graduate students from the College of Liberal Arts. Sponsored by Placement Office, Daniel Auditorium, 4 p.m. Open to all students interested in a job after graduation.
- 14 -- Beach Party: An afternoon of special events, music and outdoor films. Sponsored by University Union, East Beach, 3 p.m. until late evening. University I.D. required, no admission charge.
- 14-15 -- Coffeehouse: Silent Movies. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

SEP 17 1979



CLEMSON
UNIVERSITY

Vol. 19 No. 3

September 15, 1979



WILHITE NAMED NURSING
PROGRAM DIRECTOR

Mary J. Wilhite has been named director of Clemson's four-year baccalaureate degree program in nursing.

Geraldine Labecki, dean of the College of Nursing, said the appointment culminates a two-year national search by a faculty committee.

"We were seeking a nurse scholar, one who has research expertise, is a clinical specialist and has had experience in teaching undergraduate and graduate students," Labecki said. "Dr. Wilhite met all these criteria."

A native of Kansas, Wilhite is a registered nurse who holds a B.S. degree in nursing from Baylor University in Texas and an M.S. in nursing from Washington University in St. Louis. She received her Ed.D. degree from the University of Tulsa in 1975.

She has specialized in psychiatric nursing and has taught courses in psychosomatic disorders and the aged. Her doctoral dissertation was on "Attitudes Toward Old People and Quality of Nursing Care."

As director, Wilhite will be responsible for guiding development of the four-year curriculum, students and faculty, and for maintaining relationships with agencies in which bachelor's degree students receive clinical practice.

About 380 students are enrolled in the four-year nursing degree program, which was established in 1968. Students use the facilities of the Greenville Hospital System for their primary clinical experience.

T. L. SENN NAMED ELK OF THE YEAR

Helping people find their niche in life is T. L. Senn's way of "making a contribution."

Entering his 20th year as head of the Department of Horticulture, Senn has been named Elk of the Year in South Carolina. The award recognizes his contribution to young people and the handicapped, especially in the field of higher education.

"I believe there is a niche for everybody as long as they carve it and don't chisel it," says the man who has held the titles of "Outstanding Horticulture Teacher" in the South and in the nation.

"Carving is just good old hard work grinding away to make one's place in life," he explains.

Senn says he welcomes the publicity surrounding his being named Elk of the Year because it gives him the chance "to do away with the notion that the Elks do nothing but party."

He joined the Anderson area Elks Lodge 15 years ago when he bought a raffle ticket from a member and learned the proceeds supported the Elks' scholarship program, which today provides deserving students in South Carolina, regardless of background, with approximately \$30,000 annually in financial support.

"I knew then that what they were doing was right up my alley," says Senn.

As with his academic interest in students, Senn's involvement in another of the Elks' public service programs, helping the handicapped, has its roots in his work at Clemson. In the early 60s he spearheaded the creation of the University's Horticultural Gardens, a 70-acre showplace of flora that includes a garden for the blind complete with braille identification markers.

More recently he led the development of a course of study in horticultural therapy aimed at giving students skills to work with the handicapped.

Never one to miss an opportunity to contribute, Senn today says he is considering giving up his role as department head to return to the classroom and full-time teaching.

"I feel I have earned the right to go back into the classroom and I would consider it a promotion," he says. "Some people might say I'd be stepping down from department head, but I say it would be a step up into the teaching profession."

BIOCHEMIST ON FELLOWSHIP TO OXFORD UNIVERSITY

James K. Zimmerman, biochemistry professor, has been awarded a prestigious fellowship to Oxford University by the Fogarty International Center in Washington, D. C.

He is currently in England on a year's sabbatical, funded jointly by a research grant from the National Institutes of Health and the Fogarty Senior International Fellowship Program.

He will be overseas until next summer doing research on blood proteins. "It's quite an honor," said Jess Shively, Zimmerman's department head. "The research group he is working with is one of the best in the world in work on the blood complement system."

Zimmerman is a Nebraska native who earned his bachelor's degree at the University of Nebraska and his doctorate at

Northwestern University. He has taught at Clemson since 1971.

Zimmerman's research on a cell enzyme associated with muscular dystrophy has been supported by grants from the Muscular Dystrophy Association for the past four years.

CLEMSON STUDENTS NOT INTERESTED IN CARPOOLING

Carpooling may be a way to fight the energy shortage, but it does not fire the imagination of many people.

Of 12,500 feelers mailed out by the Traffic Office last summer to returning and incoming students, only 175 responded that they would be interested in joining a daily carpool.

Bill Pace, assistant dean of students, said the Traffic Office right now lacks the computer capability to match riders with drivers, and the slight expression of interest does not seem to justify developing one.

However, his office has put together a reference list of commuting and off-campus students who are either looking for a steady ride or offering one.

"This list will be available to anyone who wants to see it at the Traffic Office, the Union or the Housing Office," Pace said.

"Our office will continue to act as a clearinghouse for carpooling information, and we'll probably follow up on it next year with a better-designed survey."

SURPLUS PROPERTY TO BE AUCTIONED

A public auction of surplus property will be held Saturday, Sept. 29, at the surplus property warehouse in the rear of the Service and Support Facility for Purchasing on Perimeter Road.

Items to be auctioned include office equipment, approximately six trucks and

other miscellaneous items.

A list of the items will be posted in departmental offices Sept. 15, and items will be on display from 8:30 a.m. to 4 p.m. Friday, Sept. 28.

For more information, contact Evelyn Earnhart at 656-2039.

COUNSELING CENTER TO HOST CONFERENCE

The University Counseling Center will host the 16th Annual Southeastern Conference of Counseling Center Personnel on October 17, 18 and 19, 1979.

The conference will bring together over 200 college and university counselors from ten states. It will be held at the Clemson Holiday Inn and is co-sponsored by the Office of Professional Development.

PROPOSALS FOR FACULTY RESEARCH COMMITTEE GRANT APPLICATIONS BEING ACCEPTED

Proposals for Faculty Research Committee grants should be in the Office of University Research (107 E-Martin Hall) not later than Nov. 1, 1979. Application forms may be secured in the Office of University Research. Only proposals using the Faculty Research Committee application form will be considered by the committee.

The committee makes awards to new faculty members initiating research, to faculty members initiating research in a new area, and to faculty members in areas where other sources of support are inadequate or nonexistent.

RHODES SCHOLARSHIP APPLICATIONS AVAILABLE

Applications are now available for any Clemson student interested in applying for a Rhodes Scholarship, tenable at the University of Oxford.

To be eligible, the applicant must:

- (1) Be a citizen of the United States

and unmarried. A Rhodes Scholarship is forfeited by marriage after election or during a Scholar's first year of residence. Subject to certain conditions, the Rhodes Trustees may continue the payment of the Scholarship if a Scholar marries after the first year at Oxford; (2) By the 1st of October of the year of application have passed the eighteenth and not have passed the twenty-fourth birthday. (Scholars elected in December 1979 will enter Oxford in October 1980. Candidates will be eligible who were born on or after October 1, 1955, and before October 1, 1961.); (3) Have achieved academic standing sufficiently advanced to assure completion of a bachelor's degree before October 1980.

Applications should be made to the secretary of the appropriate State Committee as early as possible in October, and in no case should applications be sent later than Oct. 31, 1979.

Information about Oxford University, Rhodes Scholarships and application blanks can be secured from Acting Dean Jerome V. Reel Jr. in the Office of Undergraduate Studies, E-102 Martin Hall. Dean Reel is the institutional representative at Clemson University for the Rhodes Scholarships.

INFORMATION AVAILABLE ON DANFORTH FELLOWSHIPS

Inquiries about the Danforth Graduate Fellowships, to be awarded by the Danforth Foundation of St. Louis, MO, in April 1980, are invited by Baccalaureate Liaison Officer Acting Dean Jerome V. Reel Jr. in E-102 Martin Hall.

The Fellowships are open to all qualified persons who have serious interest in teaching careers in colleges and universities and who plan to study for a Ph.D. in any field of study common to the undergraduate liberal arts curriculum in the United States.

Applicants for the baccalaureate awards must be college seniors and may not have undertaken graduate level programs of

study. The deadline to seek information about the campus nomination process is Oct. 15, 1979. The applicant will need to submit Graduate Record Examination scores.

The Danforth Graduate Fellowship is a one-year award, but is normally renewable until completion of the advanced degree or for a maximum of four years of graduate study. Fellowship stipends are based on individual need, but they will not exceed \$2,500 for single Fellows and for married Fellows with no children. Fellows who are married or are "head of household" with one child receive up to \$3,500. There are dependency allowances for additional children. The Fellowship also covers tuition and fees up to \$4,000 annually.

ACCOUNTING AND FINANCE

C. Don Wiggins (Assoc Prof) passed the C.P.A. exam given in May 1979.

Robert W. Rouse (Assoc Prof) presented the following Continuing Professional Education courses for McKnight, Frampton, Buskirk and Co. in Charleston: "Compilation and Review of Unaudited Financial Statements," June 18; "Review of Financial Accounting Standards Board Statements," July 16-17; "Review of Statement on Auditing Standards," July 23; "An Analysis of Internal Control and its Effect upon the Audit Process," July 30; "A Review of the Reporting and Disclosure of Leasing Activities," Aug. 31.

Prof. Rouse presented a Continuing Professional Education Course for the South Carolina Association of CPA's at Myrtle Beach Aug. 1.

Prof. Rouse has also been appointed by the American Institute of Certified Public Accountants as the technical director for a CPE course titled "Accounting and Auditing Standards Refresher."

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

The following faculty members participated in the annual meeting of the American Agricultural Economics Association held at Washington State University, Pullman, WA, July 29-Aug. 2.

J. C. Hite (Prof) discussed "Local and State Government Reaction to Proposition 13" as a panelist at the meetings.

Prof. Hite and M. L. Wise (Asst Prof) presented a paper, "Space and the Demand for Environmental Amenities."

S. E. Miller (Asst Prof) presented a paper, "Univariate Residual Cross Correlation Analysis: An Application to Beef Prices."

E. H. Kaiser (Asst Prof) and B. H. Robinson (Prof) co-authored a paper, "A Return-Risk Analysis of the Decision to Participate in Government Price Support Programs," which Prof. Kaiser presented at the meetings.

Prof. Robinson organized and chaired a symposium, "Agricultural Policy Education: Is the Profession Meeting the Needs of Its Clientele?"

Prof. Miller has had the following articles published: "The Response of Futures Prices to New Market Information: The Case of Live Hogs," in the Southern Journal of Agricultural Economics, 11 (1): 57-70, July 1979; and "Univariate Residual Cross Correlation Analysis: An Application to Beef Prices," in the North Central Journal of Agricultural Economics 1 (2): 141-146, July 1979.

J.C.O. Nyankori (Asst Prof), J. W. Courter and C. M. Sabota (Univ of Illinois) presented a paper, "Consumer Surveys in Pick-Your-Own Marketing," at the Annual Meeting of the American Society of Horticultural Science at The Ohio State University, Columbus, OH, Aug. 1.

E. D. Wynn (Assoc Prof) participated in the Community Development Society Annual Meeting in Kansas City, MO, Aug. 6-9.

J. E. Faris (Prof and Hd) had an article, "Discussion: Financing Agricultural Economics Research and Extension in the Southern Region," published in the Southern Journal of Agricultural Economics, pp. 29-31, July 1979.

Prof. Hite is the author of a new book, Room and Situation, The Political Economy of Land-Use Policy, published July 25 by Nelson-Hall in Chicago.

S. C. Lilley (Vstg Asst Prof) presented "An Introduction to the Federal Assistance Programs Retrieval System" at the Municipal Management Clinic sponsored by the National Conference of Black Mayors in Columbia July 5-7.

T. A. Lyson (Asst Prof) authored an article published in International Journal of Women's Studies entitled "Some Plan to be Farmers: Career Orientations of Women in American Colleges of Agriculture," 2 (4) July/August 1979, pp. 311-324.

Prof. Robinson taught a graduate level course in agricultural policy during a regional three-week summer school for extension and adult educators at N. C. State University July 9-27.

AGRONOMY AND SOILS

Ulysses S. Jones (Prof) has been awarded one of 30 National Science Foundation Awards under the Scientists and Engineers in Economic Development program. He will spend a sabbatic year as a visiting professor in the Department of Soil Science at the University of Philippines and as a visiting scientist jointly with the International Rice Research Institute and the Southeast Asian Regional Center for Graduate Study and Research in Agriculture.

ARCHITECTURAL STUDIES

Johannes Holschneider, AIA (Prof), has been advising the University Hospitals Planning Office of Freiburg, West Germany, on care unit systems regarding its new neurological, neurosurgical and orthopedic hospital complex.

CHEMICAL ENGINEERING

J. M. Haile (Asst Prof) is co-principal investigator with Lloyd L. Lee (Univ of Oklahoma) on a two-year grant funded Aug. 1, 1979, by the National Science Foundation. The work is entitled "Perturbation Theories and Computer Simulations for Equilibrium and Transport Properties of Polar Fluids." The total grant is for \$94,994 of which about half will be subcontracted to Clemson.

CHEMISTRY AND GEOLOGY

A. R. Pinder (Prof, Chem) gave a seminar on "Some Recent Developments in Natural Product Chemistry" July 27 at Roche Products, Ltd., Welwyn Garden City, Herts., England.

CIVIL ENGINEERING

Subhash C. Anand (Prof) attended the Seventh Conference on Electronic Computation, American Society of Civil Engineers, held at Washington University, St. Louis, MO, Aug. 6-8. He presented a paper co-authored by Roger H. Shaw, Northrop Electronic's Division, Hawthorn, CA (formerly CE Grad Stu), entitled "Plastic Analysis Using Substructuring Technique."

Donald B. Stafford (Assoc Prof) has been awarded a research contract with the South Carolina Department of Highways and Public Transportation. The one-year contract in the amount of \$19,985 is for a study entitled "Evaluation of the Potential Applications of Photo-Logging in South Carolina."

DAIRY SCIENCE

G. D. O'Dell (Prof), A. B. Bodine (Asst Prof) and B. F. Jenny (Assoc Prof) received a three-year grant of \$36,950 from A. O. Smith Harvester Products, Inc. to determine optimum moisture level in alfalfa haylage to minimize protein degradation and maximize milk production.

ECONOMICS

Holley H. Ulbrich (Prof) was elected to the Board of Directors of the South Carolina Council on Economic Education at its Aug. 14 meeting. She also has a note, "Inflation, Housing Demand and Property Taxes," in the forthcoming (September) issue of the Atlantic Economic Journal.

ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) and James A. Chisman (Prof and Acting Hd) attended, by invitation, an NSF sponsored two-day presentation of a new manufacturing simulation language, GEMS, at Texas A&M, College Station, TX.

Prof. Lindenmeyer acted as a mediator in a labor-management dispute involving production standards implementation and incentive system introduction between Springport Steel Container Corporation and the U.S. Steel Workers, Aug. 20-22, in Albion, MI.

Prof. Lindenmeyer has been appointed advisor to the S. C. State Reorganization Commission and gave a presentation to the Commission members on the subject of "Activity Sampling" at the S. C. School for the Deaf and Blind in Spartanburg Aug. 10.

The Engineering Technology Department sponsored a seminar Aug. 9-10 entitled "Computerized Numerical Controlled Machining," which was attended by faculty and industrial representation. Prof. Chisman organized the seminar.

ENVIRONMENTAL SYSTEMS ENGINEERING

James D. Hindman (Project Admin) presented a paper on Clemson correspondence courses for water and wastewater plant operators at the National Environmental Training Association Workshop and Conference Aug. 14-16 in St. Louis, MO.

Mr. Hindman was elected chairman of the Board of Certification of Environmental Systems Operators for 1979-80.

HISTORY

Joseph L. Arbena (Assoc Prof) has published a review of Richard E. Sharpless, Gaitan of Colombia: A Political Biography, in History: Reviews of New Books, 7:6 (April 1979).

Prof. Arbena also participated in an in-service workshop for history teachers at Spartanburg High School Aug. 21. His formal presentation was entitled "United States--Latin American Relations: Some Historical Trends."

Charles H. Lippy (Asst Prof) reviewed Patterns of Antislavery among American Unitarians, 1831-1860 by Douglas C. Stange in Religious Studies Review V, iii (July 1979), pp. 211-12. He also conducted a workshop on "Writing to Communicate" at the Alpha Chi Rho Leadership/Scholarship Institute, Ohio State University, Aug. 14-19.

E. M. Lander Jr. (Alumni Prof) delivered the annual address to the South Caroliniana Society in Columbia May 4. His topic was "Thomas Green Clemson and the Calhouns: Another View."

Prof. Lander published a review of John M. Dobson's America's Ascent: The United States Becomes a World Power, 1880-1914 in The Annals of the American Academy of Political and Social Science, July 1979.

HISTORY AND VISUAL STUDIES

Tom Dimond (Asst Prof) participated in the Greenwood Festival of Flowers Art Exhibit

July 20-22 at Greenwood. This exhibit was sponsored by the Greenwood Art Guild and Park Seed Company. Mr. Dimond received the best in show purchase award for his acrylic painting "Fragment I." The painting was purchased for Bankers Trust of Greenwood.

INDUSTRIAL MANAGEMENT

N. Keith Womer (Assoc Prof) presented a paper, "Learning Curves and Monthly Data," at the Dod Cost Analysis Symposium held at Arlie House, VA, Aug. 26-29.

MATHEMATICAL SCIENCES

Thomas A. Carnevale (Vstg Prof) attended the 1979 Summer Meeting of the Mathematical Association of America in Duluth, MN, Aug. 20-23, and was on the Program Committee for the meeting. He met with the Two-Year College Committee of which he was also a member. On Aug. 23, he introduced one of the speakers, Prof. John Wheeler of the University of Texas, who spoke to the meeting on "Einstein's Theory of General Relativity and its Mathematical Implications."

John Kenelly (Prof) chaired a meeting of the College Board's Calculus Area Committee in Princeton, NJ, Aug. 9 and 10.

The Mathematical Association of America has called on 27 faculty members to prepare a major curriculum revision of the undergraduate program in mathematics with the primary goal being a broadening of the traditional mathematics major into a recommended mathematics sciences major. The group is divided into five subpanels, and Prof. Kenelly has agreed to serve on the calculus area subpanel. The project is funded by a grant from the Sloan Foundation.

T. G. Proctor (Prof) was an invited speaker on a panel discussion, "Trends in Curriculum and Employment in the Mathematical Sciences," at the American Mathematical Society/Mathematical Association of America Meeting in Duluth, MN, Aug. 21.

D. R. Shier (Adjunct Assoc Prof) attended the Tenth International Symposium on Mathematical Programming held in Montreal, Canada, Aug. 27-31. He presented an invited paper, "A Computational Study of Floyd's Algorithm," and was a co-author of a second presented paper, "A Methodology for Testing Mathematical Programming Software."

PHYSICS AND ASTRONOMY

Beverly B. Bookmyer (Prof) took part in IAU Symposium #88 on "Close Binary Stars" at the University of Toronto, Canada, Aug. 6-10. Prof. Bookmyer was also a member of the 17th Congress of the International Astronomical Union which met in Montreal, Canada, Aug. 13-23.

PLANT PATHOLOGY AND PHYSIOLOGY

Valerie A. Paynter (Adj Assoc Prof) and Rodrigo Alconero (Res Plant Pathologist, USDA, and Adj Assoc Prof) co-authored a paper, "A Specific Fluorescent Antibody for Detection of Syringomycin in Infected Peach Tree Tissue," which appeared in the May issue of the journal Phytopathology 69:493-498, 1979.

PLANT PEST REGULATORY SERVICE

H. B. Jackson (Hd) attended the IX International Congress of Plant Protection held in Washington, DC, Aug. 5-11. Prof. Jackson was a co-moderator for a symposium entitled "Containment, suppression and Eradication of Pests and Pathogens of Quarantine Significance."

Prof. Jackson attended the National Plant Board meeting held in Niagara Falls, NY, Aug. 13-16. He also made a presentation on "The Role of APHIS/PPQ in the Development and Maintenance of Pesticides Needed in Cooperative State-Federal Regulatory Programs -- A State View." Prof. Jackson represented the Southern Plant Board and reported on their regional meeting which was held in April.

POLITICAL SCIENCE

Michael A. Morris (Asst Prof) was a discussant at the XI World Congress of the International Political Science Association at Moscow, USSR, Aug. 13-18.

Walton Owens (Assoc Prof) has published "Expanding Pedagogical Boundaries in Political Science: Teaching the Practical Art of Television Electioneering" in Teaching Political Science 6:451-466.

PROFESSIONAL DEVELOPMENT

J. Michael McDonald (Asst Prof, IM) is course chairperson for two seminars to be held at Clemson University: "Practical Skills in Managing People," Oct. 3-4, and "Communication and Listening to Improve Productivity," Oct. 10-11.

Warren W. Menke (Prof, IM) is chairperson for a seminar, "Utilize the Computer to Improve Your Management Ability," to be held on campus Oct. 10-11.

Thomas B. Maertens (Instr, IM) is chairperson for a two-day workshop, "Supervisory and Foremanship Skills," to be

held Oct. 15-16 on campus.

SOCIOLOGY

Christopher M. Sieverdes (Assoc Prof) is co-author of a paper, "Adherence to Inmate Code in Minimum, Medium, and Maximum Security Juvenile Institutions," presented at the annual meetings of the Society for the Study of Social Problems held at Boston, MA, Aug. 24-27.

TEXTILES

Broadus L. Rutledge II (Assoc Prof) will act as moderator for the fall meeting of the Palmetto Section of the American Association of Textile Chemists and Colourists. The discussion topic is "Energy Conservation in Continuous Dyeing."

Michael J. Drews (Asst Prof) chaired the session on Ignition/Inhibition and presented an invited paper, "Antimony Oxide-Organohalogen - Polymer Substrate Interactions in the Solid Phase," at the Third Annual Conference on Fire Research at the Center for Fire Research, National Engineering Laboratory, National Bureau of Standards, Washington, DC, Aug. 22-24.

Clemson University
Clemson, South Carolina

MINUTES

of the Meeting of
THE EDUCATIONAL COUNCIL

May 25, 1979

<u>Present:</u>	Robert C. Edwards, <u>presiding</u> John L. Allen Ben W. Anderson Luther P. Anderson Melvin E. Barnette Herbert Brantley Farrell B. Brown James E. Dalton H. Morris Cox Walter T. Cox Horace W. Fleming, Jr. J. W. Gordon Gourlay	Victor Hurst Geraldine Labecki Harold F. Landrith Joseph B. McDevitt Stanley G. Nicholas B. J. Todd Wallace D. Trevillian E. N. Tyndall K. N. Vickery Henry E. Vogel Lyle C. Wilcox S. M. Willis
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1. Minutes

The minutes of the meeting of April 2, 1979, were approved as submitted.

2. Academic Matters by Colleges:

Statement and Recommendations: The Dean of the University recommended the following:

A. COLLEGE OF AGRICULTURAL SCIENCES

(1) Honors Designation:

Agron	H475	Soil Physics and Chemistry	3 cr (2,3)
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(2) New Undergraduate Courses:

Agron	406	Special Problems	1-2 cr (0,306)
AgEc	308	Quantitative Agricultural Economics	3 cr (3,0)
AgEc	319	Agribusiness Management	3 cr (3,0)
AgEc	409	Agribusiness Organization	3 cr (3,0)

(COLLEGE OF AGRICULTURAL SCIENCES)

(continued New Undergraduate Courses)

DySc	304	Evaluation of Dairy Products	1 cr (0,3)
DySc	403	Laboratory Techniques	3 cr (2,3)
DySc	456	Animal Reproductive Management	1 cr (0,3)

(3) Undergraduate Course Changes:

AgEc	309	Economics of Agricultural Marketing (Prerequisite change)	3 cr (3,0)
AgEc	352	Public Finance (Prerequisite change)	3 cr (3,0)
AgEc	403	Land Economics (Prerequisite change)	3 cr (3,0)
AgEc	406	Seminar (Prerequisite change)	1 cr (1,0)
AgEc	452/H452	Agricultural Policy (Prerequisite change)	3 cr (3,0)
AgEc	456/H456	Prices (Prerequisite change)	3 cr (3,0)
AgEc	460	Agricultural Finance (Prerequisite change)	3 cr (3,0)
CRD	357	Natural Resource Economics (Prerequisite change)	3 cr (3,0)
CRD	412	Regional Economic Development Policy (Prerequisite change)	3 cr (3,0)
AgEc	302	Economics of Farm Management (Title change)	3 cr (2,3)
WB	416	Fishery Biology (Title and description change)	3 cr (2,3)
CRD	411	Regional Impact Analysis (Credit and prerequisite change)	3 cr (3,0)
AgEc	402	Production Economics (Title and prerequisite change)	3 cr (3,0)

(continued COLLEGE OF AGRICULTURAL SCIENCES)

(4) Undergraduate Course Deletions:

AgEc	305	Agricultural Business Analysis	3 cr (2,3)
AgEc	451	Agricultural Cooperation	2 cr (2,0)

(5) Curriculum Revisions: Effective, Fall 1980

Agricultural Business Major

(ATTACHMENT 1) pgs. 133-134

Community and Rural Development Major

(ATTACHMENT 2) pgs. 135-136(6) New Graduate Courses:

AgEc	609	Agribusiness Organization	3 cr (3,0)
AgEc	827	Advanced Agricultural Consumption & Demand	3 cr (3,0)
DySc	603	Laboratory Techniques	3 cr (2,3)
DySc	656	Animal Reproductive Management	1 cr (0,3)
DySc	820	Dairy Science Graduate Seminar	1 cr (1,0)

(7) Graduate Course Changes:

AgEc	603	Land Economics (Prerequisite change)	3 cr (3,0)
AgEc	652	Agricultural Policy (Prerequisite change)	3 cr (3,0)
AgEc	656	Prices (Prerequisite change)	3 cr (3,0)
AgEc	660	Agricultural Finance (Prerequisite change)	3 cr (3,0)
CRD	612	Regional Economic Development Policy (Prerequisite change)	3 cr (3,0)
CRD	611	Regional Impact Analysis (Credit and prerequisite change)	3 cr (3,0)
AgEc	802	Advanced Production Economics (Title change)	3 cr (3,0)

(COLLEGE OF AGRICULTURAL SCIENCES)

(continued Graduate Course Changes)

AgEc	806	Applied Regional Economics (Title change)	3 cr (3,0)
AgEc	602	Production Economics (Title and prerequisite change)	3 cr (3,0)
AgEc	719	Professional Problems in Agribusiness Management (Title and number change)	3 cr (3,0)
DySc	803	Physiology of Reproduction and Milk Secretion (Description and prerequisite change)	3 cr (3,0)
WB	616	Fishery Biology (Title and description change)	3 cr (2,3)
WB	850	Aquaculture (Title and description change)	3 cr (3,0)

(8) Graduate Course Deletion:

AgEc	651	Agricultural Cooperation	2 cr (2,0)
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B. COLLEGE OF ARCHITECTURE

**(1) New Graduate Course:

CA PL	889	Selected Topics in Planning	3 cr (3,0)
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(2) Curriculum Revision: Effective, Fall 1980

B.S. in Building Science

(ATTACHMENT 3) pg. 137(3) Graduate Course Deletion:

CRP	831	Economics of Land Use Planning	3 cr (3,0)
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C. COLLEGE OF EDUCATION

(1) New Undergraduate Courses:

Educ	478	Practicum in Emotionally Handicapped	3 cr (2,3)
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(COLLEGE OF EDUCATION)

(continued New Undergraduate Courses)

Educ	479	Practicum in Mentally Retarded	3 cr (2,3)
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(2) Undergraduate Course Changes:

Educ	459	Fundamental Skills for Reading Instruction (Title and description change)	3 cr (2,2)
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Educ	462	Diagnostic and Corrective Reading (Title and description change)	3 cr (2,3)
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Educ	498	Secondary Content Area Reading (Title, description & prerequisite change)	3 cr (1,4)
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Educ	476	Practicum in Learning Disabilities (Credit, title, description, & prerequisite change)	3 cr (2,3)
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(3) Undergraduate Course Deletions:

Educ	405	Principles of Guidance	3 cr (3,0)
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Educ	460	Curriculum Development in the Elementary School	3 cr (3,0)
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Educ	465	Secondary School Curriculum	3 cr (3,0)
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Educ	494	School and Community Relationships	3 cr (3,0)
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(4) New Graduate Courses:

Educ	678	Practicum in Emotionally Handicapped	3 cr (2,3)
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Educ	679	Practicum in Mentally Retarded	3 cr (2,3)
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(5) Graduate Course Changes:

Educ	676	Practicum in Learning Disabilities (Credit, title, description, & prerequisite change)	3 cr (2,3)
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Educ	705	Principles of Guidance (Description, number, & prerequisite change)	3 cr (3,0)
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Educ	798	Teaching Secondary School Reading (Description, number, & prerequisite change)	3 cr (3,0)
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(COLLEGE OF EDUCATION)

(continued Graduate Course Changes)

Educ	759	Fundamentals of Basic Reading (Description and number change)	3 cr (3,0)
Educ	760	Curriculum Development in the Elementary School (Description and number change)	3 cr (3,0)
Educ	762	Reading Diagnosis and Remediation (Description and number change)	3 cr (2,3)
Educ	794	School and Community Relationships (Description and number change)	3 cr (3,0)
Educ	761	Reading Instruction in the Elementary School (Credit, title, description, & number change)	3 cr (3,0)
Educ	765	Secondary School Curriculum (Number change)	3 cr (3,0)

(6) Graduate Course Deletions:

Educ	605	Principles of Guidance	3 cr (3,0)
Educ	659	Fundamentals of Basic Reading	3 cr (2,2)
Educ	660	Curriculum Development in the Elementary School	3 cr (3,0)
Educ	661	Teaching Reading in the Elementary School	3 cr (2,3)
Educ	662	Reading Diagnosis and Remediation	3 cr (2,3)
Educ	665	Secondary School Curriculum	3 cr (3,0)
Educ	694	School and Community Relationships	3 cr (3,0)
Educ	698	Teaching Secondary School Reading	3 cr (1,4)

F. COLLEGE OF FOREST AND RECREATION RESOURCES

**(1) Change of Degree Requirements: Effective, Fall 1979

(COLLEGE OF FOREST AND RECREATION RESOURCES)

(continued Change of Degree Requirements: Effective, Fall 1979)Master of Recreation and Park Administration
ProgramMRPA REQUIREMENTSCurrent

Required Courses:

RPA 701 - Philosophical Foundations
of Recreation and Park Administration
3 cr. (3,0)RPA 702 - Group Processes in Leisure
Services 3 cr. (3,0)RPA 703 - Seminar in Recreation and Park
Administration 3 cr. (3,0)

RPA 709 - Special Problems 3 cr. (3,0)

RPA 710 - Current Issues in Recreation
1 cr. (1,0)Other CoursesOther courses selected in conjunction
with Graduate Committee for a minimum
of 30 semester hours is required for
the MRPA degree.As of 8/79

Required Courses:

RPA 701 - Philosophical Foundations
of Recreation and Park Administration
3 cr. (3,0)RPA 702 - Group Processes in Leisure
Service 3 cr. (3,0)RPA 703 - Seminar in Recreation and Park
Administration 3 cr. (3,0)

RPA 709 - Special Problems 3 cr. (3,0)

RPA 710 = Current Issues in Recreation
1 cr. (1,0)*EXST 801 - Statistical Methods
4 cr. (3,3)or
*Math 601 - Statistical Theory and
Methods I 3 cr. (3,0)*RPA 811 - Research and Evaluation in
Recreation 3 cr. (3,0)Other CoursesOther courses selected in conjunction
with Graduate Committee for a minimum
of 36 semester hours is required for
the MRPA degree

*Change is the addition of these courses to the MRPA requirement.

G. COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

(1) Undergraduate Course Change:

IM	422	Small Business Management (Number change)	3 cr (3,0)
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(2) Undergraduate Course Deletion:

IM	315	Small Business Management (Replaced by IM 422)	3 cr (3,0)
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H. COLLEGE OF LIBERAL ARTS

(1) Clemson in Spain - Winter 1979-80

The Department of Languages proposes to conduct a three week session in Spain, December 16, 1979 to January 10, 1980.

Spanish	202	Intermediate Spanish	3 cr (3,0)
	<u>or</u>		
Spanish	498	Independent Study	3 cr (3,0)

I. COLLEGE OF SCIENCES

**(1) New Graduate Course:

Zool	818	Community Ecology	4 cr (3,3)
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(2) New Undergraduate Courses:

Bot	203	Humanistic Botany	2 cr (2,0)
Math	207	Multivariable Calculus	3 cr (3,0)

(3) Courses Designation Change: Effective, Fall 1980

MATH to become MATHEMATICAL SCIENCES

(4) Graduate Course Change:

Phys	716	Experimental Physics for High School Teachers (Title and description change)	4 cr (2,4)
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Action: APPROVED

3. Policy on 600 Level Courses

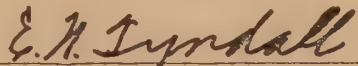
Statement and Recommendation: The Dean of the University recommended the following statement:

Courses numbered in the 300 and 400 sequence are primarily for advanced undergraduates but are also offered for graduate credit when they carry the corresponding 600 level number. Students who receive graduate credit in such courses must do extra work of an appropriate nature as determined by the department and be graded according to graduate standards.

Students shall not enroll in 600 level courses for which they have received undergraduate credit, nor can graduate credit be awarded retroactively for undergraduate courses already completed.

600 level courses should not be included in the minimum hours required for graduate degrees if these courses are clearly equivalents of undergraduate courses required for an undergraduate degree in the same major at Clemson University.

Action: APPROVED



E. N. Tyndall, Secretary

Curriculum in Agricultural Economics and Rural Sociology

Agricultural Business Major

Effective: Fall 1980

Freshman Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Agric. 103 Intro. to Animal Ind.	3 (2,3)	Agric. 104 Intro. to Plant Sci.	3 (2,3)
Engl. 101 Engl. Composition	3 (3,0)	Engl. 102 Engl. Composition	3 (3,0)
Math Option <u>2/</u>	3-4	Math Option <u>2/</u>	3
Phys. Biol. Sci. Rqmt. <u>1/</u>	7	Phys. Biol. Sci. Rqmt. <u>1/</u>	7
	<u>16-17</u>		<u>16</u>

Sophomore Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Acct. 201 Prin. of Acct.	3 (3,0)	Acct. 202 Prin. of Acct.	3 (3,0)
Econ 201 Prin. of Econ.	3 (3,0)	Ag. Ec. 202 Agric. Econ.	3 (3,0)
Literature Rqmt. <u>3/</u>	3	Engl. Rqmt. <u>4/</u>	6
Math Option <u>2/</u>	3	Math Option <u>2/</u>	3
Phys. Biol. Sci. Rqmt. <u>5/</u>	3	Elective	3
Social Sci. Elective <u>1/</u>	3		<u>18</u>
	<u>18</u>		

Junior Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Ag. Ec. 308 Quantitative Ag. Econ.	3 (3,0)	Ex. St. 462 Stat. Applied to Econ.	3 (3,0)
Econ. 314 Inter. Econ. Theory	3 (3,0)	Advanced Econ. Rqmt. <u>7/</u>	3
RS 301 Rural Sociology	3 (3,0)	Ag. Econ. Rqmt. <u>8/</u>	6
Ag. Econ. Rqmt. <u>6/</u>	6	Ag. Elective <u>10/</u>	3
Elective	3	Elective	2
	<u>18</u>		<u>17</u>

Senior Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Ag. Econ. Rqmt. <u>8/</u>	6	Ag. Econ. 406 Seminar	1 (1,0)
Ag. Elective <u>10/</u>	3	Ag. Econ. Rqmt. <u>8/</u>	6
RS Elective <u>9/</u>	3	Ag. Elective <u>10/</u>	3
Elective	3	Elective	5-6
	<u>15</u>		<u>15-16</u>

(continued ATTACHMENT 1)

Effective: Fall 1980

Notes to Agricultural Business Major

- 1/ Seventeen (17) hours of physical and biological sciences are required with at least six (6) hours to be chosen from physical sciences and at least six (6) hours to be chosen from biological sciences. Physical sciences are defined as physics, astronomy, chemistry, and geology. Biological sciences are defined as botany, zoology, biology, biochemistry, microbiology, and genetics.
- 2/ Math Options:
- | <u>Option A</u> | | <u>Option B</u> | |
|-----------------|---------------|-----------------|---------------|
| Math 101 | 3 cr. | Math 106 | 4 cr. |
| Math 102 | 3 cr. | Math 210 | 3 cr. |
| Math 203 or | | Math 301 | 3 cr. |
| Ex Stat 301 | 3 cr. | Comp Sc 205 | 3 cr. |
| Comp Sc 205 | 3 cr. | | <u>13 cr.</u> |
| | <u>12 cr.</u> | | |
- 3/ To be selected from: Engl 203, 204, 205, 206, 207, 208, or 209
- 4/ To be selected from: Engl 231, 301, or 304.
- 5/ To be selected from: Hist 101, Hist 102, Geog 301, Soc 201, Soc 204, Hist 306, Hist 308, Psych 201, Pol Sci 101, Pol Sci 302.
- 6/ Twelve hours selected from: Ag Ec 302, Ag Ec 309, Ag Ec 319, Ag Ec 351, Ag Ec 352, Ag Ec 460.
- 7/ To be selected from: Econ 302, Econ 407, or Econ 412.
- 8/ Twelve hours selected from: Ag Ec 402, Ag Ec 403 or 413, Ag Ec 409, Ag Ec 452, and Ag Ec 456.
- 9/ To be selected from: RS 359, RS 401, and RS 471.
- 10/ Courses in the College of Agricultural Sciences outside of the Department of Agricultural Economics and Rural Sociology.

Curriculum in Agricultural Economics and Rural Sociology

Community and Rural Development Major

Effective: Fall 1980

Freshman Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Agric. 103 Intro. to Animal Ind.	3 (2,3)	Agri. 104 Intro. to Plant Sci.	3 (2,3)
Engl. 101 Engl. Composition	3 (3,0)	Engl. 102 Engl. Composition	3 (3,0)
Math Option <u>2/</u>	3-4	Math Option <u>2/</u>	3
Phys. Biol. Sci. Rqmt. <u>1/</u>	8	Phys. Biol. Sci. Rqmt. <u>1/</u>	8
	<u>17-18</u>		<u>17</u>

Sophomore Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Acct. 200 Basic Acct.	3 (3,0)	Ag. Ec. 202 Agric. Econ.	3 (3,0)
Econ. 201 Prin. of Econ.	3 (3,0)	Earth Sci. Rqmt. <u>5/</u>	2-3
Hist. 102 Hist. of U.S.	3 (3,0)	Engl. Rqmt. <u>6/</u>	6
Literature Rqmt. <u>3/</u>	3	Math Option <u>2/</u>	3
Math Option <u>2/</u>	3	Soc. Sci. Rqmt. <u>4/</u>	3
Elective	3		<u>17-18</u>
	<u>18</u>		

Junior Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
Ag. Ec. 352 Public Finance	3 (3,0)	Ex. Stat. 462 Stat. Applied to Econ.	3 (3,0)
CRD 357 Natural Res. Econ.	3 (3,0)	RS 359 The Community	3 (3,0)
Econ 314 Inter. Econ. Theory	3 (3,0)	Adv. Econ. Elective <u>7/</u>	3
RS 301 Rural Sociology	3 (3,0)	Planning Elective <u>8/</u>	3
Minor <u>11/</u>	3	Minor <u>11/</u>	3
Elective	3		<u>15</u>
	<u>18</u>		

Senior Year

<u>First Semester</u>	<u>cr.</u>	<u>Second Semester</u>	<u>cr.</u>
CRD 411 Regional Impact Impact Anal. <u>9/</u>	3 (2,3)	CRD 412 Regional Econ. Dev. Pol.	3 (3,0)
Adv. RS Elec. <u>9/</u>	3	Adv. Soc. Sci. Elec. <u>10/</u>	3
Adv. Soc. Sci. Elec. <u>8/</u>	3	Minor <u>11/</u>	6
Planning Elective <u>8/</u>	3	Elective	4
Minor <u>11/</u>	3		<u>16</u>
	<u>15</u>		

Notes to Community and Rural Development Major

1/ Sixteen (16) hours of physical and biological sciences are required with at least six (6) hours to be chosen from physical sciences and at least six (6) from biological sciences. Physical sciences are defined as physics, astronomy, chemistry, and geology. Biological sciences are defined as botany, zoology, biology, biochemistry, microbiology, and genetics.

2/ Math Options:

<u>Option A</u>		<u>Option B</u>	
Math 101	3 cr.	Math 106	4 cr.
Math 102	3 cr.	Math 210	3 cr.
Math 203 or		Math 301	3 cr.
Ex Stat 301	3 cr.	Comp Sc 205	3 cr.
Comp Sc 205	3 cr.		<u>13 cr.</u>
	<u>12 cr.</u>		

3/ To be selected from: Engl 203, 204, 205, 206, 207, 208, or 209.

4/ To be selected from: Hist 306, Hist 308, Geog 301, Soc 204, Psych 201, Pol Sci 101, or Pol Sci 302.

5/ To be selected from: Agron 202, Agron 404, Geog 101, Geol 400, or Ag M 301.

6/ To be selected from: Engl 231, 301, or 304.

7/ To be selected from: Econ 302, 407, 420, 421, 422, or IM 406.

8/ To be selected from: CAPL 411, 472, or 473.

9/ To be selected from: RS 401, or 471.

10/ To be selected from: Soc 206, 208, 324, 421, 431, 441, Geog 302, Pol Sci 321, 423, 425, or 427.

11/ See advisor for available minors and course requirements.

-- ATTACHMENT 3 --

BACHELOR OF SCIENCE IN BUILDING SCIENCE

Effective: Fall 1980

FRESHMAN YEAR

First Semester

CA DS	151	Design Studies	4	(2,6)
CA AH	115	Hist. of Art & Arch. I	3	(3,0)
Engl	101	English Comp.	3	(3,0)
Math	106	Cal. of One Var. I	4	(4,0)
Phys	115	Classical Physics I	3	(3,0)
			<u>17</u>	

Second Semester

CA DS	152	Design Studies	4	(2,6)
CA AH	116	Hist. of Art & Arch. II	3	(3,0)
Engl	102	English Comp.	3	(3,0)
Math	301	Stat. Theory & Meth. I	3	(3,0)
Phys	116	Classical Physics II	3	(3,0)
			<u>16</u>	

SOPHOMORE YEAR

CA BS	241	Construction Mgt. I	5	(3,6)
CA AH	215	Hist. of Art & Arch. III	3	(3,0)
CA BS	201	Bldg. Science	3	(2,3)
CompSc	220	Intro Inf Proc Sys	3	(3,0)
Econ	201 ¹	Prin. of Economics	3	(3,0)
			<u>17</u>	

CA BS	242	Construction Mgt. II	5	(3,6)
CA AH	216	Hist. of Art & Arch. IV	3	(3,0)
CA BS	202	Bldg. Science	3	(2,3)
Acct	200	Basic Accounting	3	(3,0)
Econ	202 ¹	Prin. of Economics	3	(3,0)
			<u>17</u>	

JUNIOR YEAR

CA BS	341	Const. Mgt. III	5	(3,6)
CA BS	303	Bldg. Science	3	(3,0)
CE	201	Surveying	3	(3,0)
English Requirement ²			3	(3,0)
Elective			3	
			<u>17</u>	

CA BS	342	Const. Mgt. IV	5	(3,6)
CA BS	304	Bldg. Science	3	(3,0)
Law	312	Commerical Law	3	(3,0)
English Requirement ²			3	(3,0)
Elective			3	
			<u>17</u>	

SENIOR YEAR

CA BS	441	Const. Mgt. VI	5	(3,6)
CA BS	404	Bldg. Science	3	(3,0)
CA AR	421	Arch Seminar	3	(3,0)
Elective			6	
			<u>17</u>	

CA BS	442	Const. Mgt. VII	5	(3,6)
CA BS	432	Const. Mgt. V	3	(3,0)
Elective			9	
			<u>17</u>	

Total Semester Hours = 135

¹Econ 200 and a 300-level economics course may be substituted for Econ 201 and 202.²To be selected from the following: Engl 202, 203, 204, 205, 206, 207, 208, 209, 301.

Major: To fulfill the requirements for a major in Building Science students must take, in addition to specified courses, a minimum of 8 credits above the sophomore level in the areas of Accounting, Economics, Industrial Management, Building Science, or Planning Studies.

NOTE: The first degrees with the designation Building Science in lieu of Building Construction will be awarded no earlier than May, 1979.

Calendar of Campus Events

- 15 -- Football: Maryland, here, 3:20 p.m.
- 15 -- Barbecue Chicken Dinner. Sponsored by Alpha Gamma Rho, in front of Jervey Athletic Center, 10:30 a.m. There will be a per plate charge.
- 15-10/1 -- Art Exhibitions: "Hollis Holbrook Painting Retrospective," 30 paintings by a leading southeastern artist, and "Photography--A Representative Survey," 34 photographs representing the history of photography. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 16 -- Free Flick: "Tarzan and the Ape Man." Sponsored by University Union, YMCA Theater, 8 p.m. University I. D. required, no admission charge.
- 16 -- Sailing Clinic. Sponsored by University Union, YMCA recreational area. Details and sign up at Union Information Desk, University I. D. required.
- 16 -- Soccer: University of Connecticut, here, 2 p.m.
- 17-10/5 -- Short Course: "Professional Development for Recreation Managers." An opportunity for U. S. Forest Service managers to gain a working knowledge of recreation philosophy and develop expertise in meeting problems of recreation resource management. Sponsored by Recreation and Park Administration Department. Contact Paul Saunders at 656-3400 for more information.
- 18 -- Performing Artist Series: Tequila Mockingbird Chamber Ensemble. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public. Tickets may be purchased at the door for \$1.50 or as an entire series for \$6.
- 18-19 -- Workshop: "Effective Performance Appraisal and Review." Sponsored by Professional Development Office, call 656-2200 for more information.
- 18-19 -- Workshop: "Volatile Organic Compound Emission Control." Sponsored by Professional Development Office, call 656-2200 for more information.
- 19 -- Workshop: "Women in Management." Sponsored by Professional Development Office, call 656-2200 for more information.
- 19 -- Workshop: "Communication Problems of the Critically Ill." Conducted by Ann Rawlings, visiting instructor in the College of Nursing. Sponsored by the EMS Project, Continuing Education Department of the College of Nursing. Open to registered nurses only, pre-registration required. Call 656-3078 for more information.
- 20 -- Workshop: "Assertiveness Training." Sponsored by Professional Development Office, call 656-2200 for more information.
- 21 -- Concert: Lexington Park String Ensemble with Jackson Parkhurst conducting. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 21-22 -- Coffeehouse: David Bethany. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I. D. required, 50¢ donation requested.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 21 -- Workshop: "Effective Expression." Sponsored by Professional Development Office, call 656-2200 for more information.
- 22 -- Concert: Gene Cotton. Sponsored by University Union, Littlejohn Coliseum, 8 p.m. Open to the public, ticket prices to be announced.
- 22 -- Football: Georgia, here, 1 p.m.
- 23 -- Soccer: Duke University, here, 2 p.m.
- 23 -- Day Hike to Table Rock. Sponsored by University Union. Details and sign up at Union Information Desk, University I.D. required.
- 23 -- Free Flick: "Rabid." Sponsored by University Union, YMCA Theater, 8 p.m. University I. D. required, no admission charge.
- 24 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge. Call 656-3393 for more information.
- 24-25 -- Workshop: "Custodial and Maintenance Workshop." Sponsored by Professional Development Office, call 656-2200 for more information.
- 26 -- Workshop: "Positive Discipline." Sponsored by Professional Development Office, call 656-2200 for more information.
- 27 -- Speaker: Mr. John Beck, president of Penreco Division of Pennzoil, will discuss his company's role in the chemical industry. Sponsored by the Distinguished Chemical Industry Business Seminar Series, 1:25 p.m. in Earle Hall Auditorium and 4:30 p.m. in 131 Brackett Hall. Open to the public, no admission charge.
- 27-28 -- Workshop: "Low Cost Maintenance Control." Sponsored by Professional Development Office, call 656-2200 for more information.
- 29-30 -- Overnight Canoe Trip. Sponsored by University Union. Details and sign up at Union Information Desk, University I. D. required.
- 29 -- Workshop: "Principles of IV Fluid Administration." Conducted by Veronica Rempusheski, instructor in the College of Nursing. Sponsored by the EMS Project, Continuing Education Department of the College of Nursing. Open to licensed practical nurses only, pre-registration required. Call 656-3078 for more information.
- 30 -- Free Flick: "September 30, 1955." Sponsored by University Union, YMCA Theater, 8 p.m. University I. D. required, no admission charge.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 4

October 1, 1979



CLEMSON
UNIVERSITY



TOP DOLLARS FOR UNITED WAY--President Bill Atchley presents his check for the Clemson University United Way drive to Horace Fleming, campus campaign chairman.

UNITED WAY CAMPAIGN GETS UNDER WAY

A campus-wide campaign to give every Clemson employee an opportunity to contribute to United Way gets under way this month as part of the overall annual solicitation in the tri-county area.

Prof. Horace W. Fleming Jr., who teaches political science and serves as Faculty Senate president, has been appointed University campaign chairman by President Bill Atchley.

The campaign will seek gifts and pledges which will be used to benefit the various member agencies of United Way which provide a variety of community services.

"Clemson University is an important part of the community," said Fleming, "and our participation and a successful campaign for the United Way provides all of us with an opportunity to further serve the community of which we are a part."

Sam M. Willis, dean of university extension and president of the Pickens County United Way, said, "This is really the first time we have had an organized, in-house campaign at the University."

Willis said the University campaign will be part of a consolidated three-pronged effort involving Oconee and Pickens counties United Way and the Western Foothills United Way which serves Anderson and Abbeville counties. He said the executive directors in each of the three areas have been involved in the planning and concept development for the University-wide campaign.

Fleming noted that payroll deduction for United Way pledges will be available for the first time this year in the University campaign. Also, donors can specify that their gift be earmarked for programs in the county of their choice.

TEMPERATURE BEING CONTROLLED IN CAMPUS BUILDINGS

In compliance with Federal and State regulations, temperature levels in all campus buildings and facilities (with a few authorized exemptions) are being permanently maintained at 78 degrees Fahrenheit in the cooling season and 65 degrees Fahrenheit during the heating season. The domestic hot water temperature will be maintained at 105 degrees Fahrenheit.

The Physical Plant Division is in the process of analyzing each facility and adjusting controls to comply with all regulations. A decal stating that a thermostat has been adjusted will be affixed near the thermostat, and a Certificate of Building Compliance will be posted in a prominent location in all buildings as they are regulated.

Your voluntary support in complying with these regulations will be most appreciated. For more information, contact J. A. Stanley, energy conservation officer, at 656-2186.

FACULTY FORUM TO BE HELD ON WEDNESDAYS

University faculty and staff are invited to attend a Faculty Forum from noon-1 p.m. each Wednesday of the school term for the purpose of interdisciplinary conversation and stimulation.

The informal hour will consist of a presentation by a faculty member of significant and current ideas in his/her respective field to be followed by group discussion.

Sponsored by the Clemson Campus Ministers Association, the program will be held at the Baptist University Center at 102 Oak Terrace overlooking the campus. Bring a sack lunch; beverage is provided.

For further information, call Sidney Hall at 654-4101.

PROPOSALS FOR FACULTY RESEARCH COMMITTEE GRANT APPLICATIONS BEING ACCEPTED

Proposals for Faculty Research Committee grants should be in the Office of University Research (107 E-Martin Hall) not later than Nov. 1, 1979. Application forms may be secured in the Office of University Research. Only proposals using the Faculty Research Committee application form will be considered by the committee.

The committee makes awards to new faculty members initiating research, to faculty members initiating research in a new area, and to faculty members in areas where other sources of support are inadequate or nonexistent.

ANNUAL COMPETITION FOR OVERSEAS STUDY SOON TO CLOSE

The 1980-81 competition for grants for graduate study abroad offered under the Fulbright Program and by foreign governments, universities and private donors will close Nov. 1, 1979. Only a few more weeks remain in which qualified graduate students may apply for one of the approximately 505 awards which are available to

50 countries.

Most of the grants offered provide round-trip transportation, tuition and maintenance for one academic year. A few provide international travel only or a stipend intended as a partial grant-in-aid.

Applicants must be U. S. citizens at the time of application, and must generally hold a bachelor's degree or its equivalent before the beginning date of the grant and, in most cases, should be proficient in the language of the host country. Except for certain specific awards, candidates may not hold the Ph.D. at the time of application. Candidates for 1980-81 are ineligible for a grant to a country if they have been doing graduate work or conducting research in that country for six months or more during the academic year 1979-80.

Creative and performing artists are not required to have a bachelor's degree, but they must have four years of professional study or equivalent experience. Social work applicants must have at least two years professional experience after the Master of Social Work degree; candidates in medicine must have an M.D. at the time of application.

Application forms and further information may be obtained from the Fulbright Program Adviser Dr. A. E. Schwartz, who is located in The Graduate School, E-106 Martin Hall. The deadline for filing applications on campus is Oct. 1, 1979.

AGRICULTURAL ENGINEERING

Clarence E. Hood (Prof), Byron K. Webb (Prof and Hd) and Yekutiell Alper (Vstg Instr) have been awarded Patent 4,159,745 for their "Crop Uprooting and Soil Working Apparatus."

Prof. Hood attended the Fluid Power Educator's Seminar at Purdue University Aug. 6-8.

Barbara Griffin (Asst Prof) has been elected to the Board of Directors of

the American Association of Housing Educators.

On Sept. 16 and 17, Prof. Griffin appeared as a roundtable speaker in Jacksonville, FL, representing the American Home Economics Association on the subject of energy. The meeting was sponsored by Westinghouse and General Electric.

Gaines E. Miles (Asst Prof) presented a paper, "Modeling Crop Growth," at the IXth International Congress of Plant Protection held in Washington, DC, Aug. 5-11.

AGRONOMY AND SOILS

J. H. Palmer (Prof) has received a research grant in the amount of \$1,500 from Monsanto Agricultural Products Co. to study the yield enhancement potential of several chemical plant growth regulators on southern determinate soybeans.

J. R. Woodruff (Prof) has received a research grant in the amount of \$20,000 from International Minerals and Chemical Corp. for the evaluation of the micro-nutrients and sulfur status of South Carolina soils.

ANIMAL SCIENCE

Tomas Gimenez (Asst Prof), L. G. Sheffield (Grad Res Asst) and A. R. Ellicott (Assoc Prof) attended the inter-regional workshop on Animal Reproduction held at Purdue University July 9-11. Recent research findings on the "Levels of Prolactin, LH and Progesterone in Young Postpartum Beef Cows" were presented by Prof. Ellicott.

R. F. Wheeler (Hd and Prof) presented a paper, "Pro-Lix and Pro-Lix Mixed with Rumose for Beef Cattle," at the Pro-Lix Liquid Feed International Convention in Pine Mountain, GA, Aug. 24-26.

The following presented papers at the American Society of Animal Science 71st Annual Meeting, Tucson, AZ, July 28-Aug. 1:

"Birth Weight Differences in Calves from Angus Dams from 5 Sire Breeds," C. E. Thompson (Assoc Prof), Mario DeLuca (Grad Res Asst), G. L. Burns (Former Ag Sc Asst), and J. R. Hill Jr. (Supt. Edisto Experiment Station).

"Influence of Suckling on Cortisol Levels in Beef Heifers," Prof. Ellicott, Prof. Gimenez, D. M. Henricks (Prof, Food Science) and T. E. Kiser (Univ of Ga).

D. L. Handlin (Assoc Prof) presented the vice president's report at the summer meetings of the National Block and Bridle Club in Tucson, AZ, Aug. 1.

ARCHITECTURAL STUDIES

George C. Means (Prof) was invited to act as a reviewer for papers published in Hospital and Community Psychiatry. Hospital and Community Psychiatry is an interdisciplinary monthly journal published by the American Psychiatric Association. It is directed to professional staff members of mental health agencies, mental hospitals, mental health centers, clinics and psychiatric units in general hospitals. H&CP publishes clinical and research papers, program descriptions, commentary and reports on legal and judicial issues and other matters of current interest or controversy.

Joseph Young (Prof) spent four weeks traveling in Europe with a group of state architects on a tour conducted by Dean Harlan E. McClure. At the end of the tour, Prof. Young spent another two weeks in Genoa, Italy, continuing research initiated during the academic year 1974-75 when he conducted the College of Architecture overseas program at the Center for Building Research and Urban Studies.

Approximately 16 architects from throughout the state attended a continuing educational seminar on Performance Evaluation conducted in Columbus, IN, by Gayland Witherspoon (Hd) and Prof. Young. Columbus is well-known throughout the world for its concentration of architecturally well-designed buildings. The participants completed a performance

evaluation on buildings visited. The seminar was held July 26-29, and was sponsored by the Clemson Architectural Foundation.

Profs. Means and Witherspoon attended a joint meeting of the American Institute of Architects and the American Hospital Association in Ottawa, Canada, where Bruce Eason, a May graduate from the Health Care Studio and recipient of the AIA/AHA Fellowship, presented a paper on "Regulatory Agencies" which was well received by both American and Canadian professionals. This meeting was held in July.

Prof. Witherspoon participated in and assisted in selection of nationwide representatives for a Department of Energy-sponsored one day work session in Washington, DC, with representatives from the Department of Energy and Oak Ridge Laboratories. The subject of the seminar was innovative structures as related to energy conservation, a search for alternative concepts. This work session was held July 16.

Martin Davis (Asst Prof) participated in the Solar Greenhouse-Residence Conference April 1-4, 1979, at Rutgers University in New Brunswick, NJ. This conference was sponsored by the U. S. Department of Energy, USDA and Rutgers University. Mr. Davis also had a paper published in the proceedings of the 4th Annual Conference on Solar Energy for Heating Greenhouses and Greenhouse-Residence Combinations entitled "Operation and Performance of a Hybrid Solar Greenhouse-Residence." Co-authors on this paper were D. Ezell (Assoc Prof, Hort) and L. Godbey (USDA Rural Res Unit).

BIOCHEMISTRY

K. Takahashi, H. Weiner and C. Brown (Asst Prof) published an abstract, "Metal Activation of pI 5 Isozyme of Horse Liver Aldehyde Dehydrogenase. Alcoholism," Chemical and Experimental Research 3, 264 (1979). The same paper was published in the 3rd International Symposium on Alcohol and Aldehyde Metabolizing Systems,

Toronto, July 1979.

The Department of Biochemistry has two visiting assistant professors, Donna M. Gibson and Valerie A. Paynter, both of whom joined the faculty in August 1979.

J. M. Shively (Prof and Hd) attended and presented an invited paper at the III International Symposium on Photosynthetic Procarvates at Oxford, England, Aug. 26-Sept. 1. The paper was titled "Ribulose Bisphosphate Carboxylase, Carboxysomes and the Fixation of Carbon Dioxide in Autotrophic Microbes."

J. K. Zimmerman (Assoc Prof) is currently on sabbatical and is studying in the laboratory of Prof. R. R. Porter in Oxford, England. Prof. Zimmerman will return in August 1980.

CHEMISTRY AND GEOLOGY

H. G. Spencer (Prof) presented a paper, "Transient Transport Across Binary-Laminate Films Enclosing a Finite Volume," in the Symposium on Polymeric Containers at the Annual Meeting of the American Chemical Society, Washington, DC, Sept. 9-14.

R. A. Abramovitch (Prof and Hd) visited Dow Chemical Company at Freeport, TX, and presented an invited lecture on his research in Pyridine chemistry. Dow Freeport is one of the largest United States manufacturers of pyridine derivatives.

The Department of Chemistry has received a grant from the National Science Foundation for the purchase of a high resolution nuclear magnetic resonance $^1\text{H}/^{13}\text{C}$ Fourier transform NMR spectrometer. The grant application was generated by A. R. Pinder (Prof, Chemistry).

CIVIL ENGINEERING

J. Larry Josey (Assoc Prof) has been awarded a \$23,000 research grant by the South Carolina Department of Highways and Public Transportation. The research project is for evaluating a pavement

roughness measuring device recently purchased by the South Carolina Department of Highways. A report on the equipment giving its capabilities and limitations and an outline on how to effectively use the device will be part of the research results. Ultimate results will be smoother highways for South Carolina motorists.

Subhash C. Anand (Prof) attended the Third Specialty Conference, Engineering Mechanics Division, ASCE, held at the University of Texas at Austin Sept. 15-19, at which he chaired a session entitled "Inelastic Behavior." In addition, he was co-author of a paper with Prof. Frank E. Weisberger, University of Pittsburg (former Grad Stu), entitled "Tresca Yield Condition in Plane Strain."

ELEMENTARY AND SECONDARY EDUCATION

Robert P. Green Jr. (Vstg Asst Prof) conducted an in-service session for Spartanburg County, District #2, social studies teachers. Topics included values education and working with slower learners.

COLLEGE OF ENGINEERING, OFFICE OF THE DEAN

Lyle C. Wilcox (Dean) has been assigned to the Industry/University Research Committee, Engineering Research Council of the American Society for Engineering Education for the year 1979-80. The committee's purpose is to prevent educational programs from evolving in isolation by maintaining close contact between the engineering school and industry.

ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof), a technical advisor to the S. C. State Reorganization Commission, gave a short presentation Aug. 28 on "Micromotion Study and Predetermined Basic Motion Time Systems" to the task force at the S. C. School for the Deaf and the Blind in Spartanburg.

D. L. Ryan (Assoc Prof) was a speaker at a seminar entitled "Industry Awareness of Computer-aided Design and Manufacturing" held at the University of Louisville, Louisville, KY, May 10-12.

Prof. Ryan served as chairman for the CEE seminar "Computer Programming for Graphical Displays," Aug. 13.

Prof. Ryan and D. V. Hutton (Assoc Prof) visited May 20 Gerber Scientific Instrument Corp. of Hartford, CT, to investigate industry cooperation for a one year NSF planning grant entitled "Computer-aided Design for Small- and Medium-sized American Industry."

Prof. Ryan served as program chairman and primary lecturer for the CEE workshop "Computer-aided Graphics and Design," Aug. 14-17.

Prof. Ryan has recently received notice that Marcel-Dekker, Inc., has released his text Computer-Aided Graphics and Design for fall 1979. The new text, ISBN: 0-8247-6912-0, is a 324-page work based on a Clemson undergraduate course by the same title.

ENGLISH

Sterling Eisiminger (Asst Prof) won the essay prize in the annual creative writing contest of the Virginia Highlands Festival.

Bruce M. Firestone (Asst Prof) and Clifton Egan (Asst Prof) screened their film, "A Thrill You Hadn't Ever Saw," at the University Film Association, Ithaca, NY, Aug. 13-17.

Robert W. Hill (Assoc Prof) gave a poetry reading at the Jewish Center for the Aged, St. Louis, MO, June 17.

Roger Rollin (Lemon Prof) gave an invited lecture entitled "La Pieta and Pink Plastic Flamingoes: The Mystique of Imperial Aestheticism" at the Summer Institute of the Henry Francis du Pont Winterthur Museum (Delaware), Aug. 6.

Fred Shilstone (Assoc Prof) published "The Lyric Collection as Genre: Byron's Hebrew Melodies" in Concerning Poetry, 12, No. 1 (1979), 45-52.

ENTOMOLOGY AND ECONOMIC ZOOLOGY

Arnold G. Eversole (Assoc Prof) and Jeffrey W. Foltz (Asst Prof) visited and discussed development of aquaculture plan with the faculty at Auburn University, July 9-11.

Prof. Eversole attended and participated in the 71st SINA-NSA joint annual meeting in Vancouver, Canada, June 23-28.

Merle Shepard (Assoc Prof) and J. L. Bernhardt (Former Grad Res Asst) published a paper, "Comparative Development, Reproduction, and Leaf Area Consumption by Mexican Bean Beetles on Phaseolus spp. and Soybeans," in the Journal of The Georgia Entomological Society Vol. 14 (3): 191-198.

Sam G. Turnipseed (Prof) presented a paper on soybean pest management to the International Congress of Plant Protection held in Washington, DC, Aug. 4-8.

T. E. Skelton (Prof) attended and participated in the 3rd Workshop on Teaching Entomology on the Purdue University campus Aug. 2-4. The workshop was sponsored by the Special Committee on Education of the Entomological Society of America. Prof. Skelton currently serves as chairman of this committee.

S. B. Hays (Prof and Hd) attended and participated in the Governing Board Meeting of the Entomological Society of America in Denver, CO, Aug. 22-24. He is the representative of the southeastern states.

ENVIRONMENTAL SYSTEMS ENGINEERING

Thomas M. Keinath (Prof and Hd) and T. E. Pollock (Asst Prof) have been awarded a research grant from the Environmental Protection Agency. This 16-month grant for \$155,180 is entitled

"Technology Evaluation for Priority Pollutant Removal from Dyestuff Wastewaters."

Prof. Keinath will chair a symposium, "Wastewater Treatment Process Design," at the 1979 Conference of the Water Pollution Control Federation Oct. 11 in Houston, TX.

Benjamin C. Dysart III (Prof) was appointed Aug. 16 to the Outer Continental Shelf Advisory Board by Interior Secretary Cecil Andrus. Dysart was also appointed to the OCS Board's 15-man national Scientific Committee.

On Sept. 5 Prof. Dysart served as an invited non-federal panelist at a public meeting in Atlanta concerning the President's National Water Policy Review. He presented comments co-authored by Richard C. Warner (Grad Stu) on the report of the Task Force on Environmental Statutes.

In July of this year, Prof. Dysart was named to the U. S. Environmental Protection Agency's Nonpoint Source Pollutant Task Force. The task force met Aug. 13-16 at EPA's Ada, OK, research laboratory to draft guidance for the development of evaluation plans for NPS control projects around the nation. The task force was created to advise the Office of Water and Waste Management at EPA headquarters.

Alan W. Elzerman (Asst Prof) participated in a research cruise on Lake Superior in July as part of EPA-funded project on PCBs.

Prof. Elzerman was session chairman, Surface Microlayer Processes, at the Symposium on Atmospheric Input of Pollutants to Natural Waters, American Chemical Society, Washington, DC, Sept. 9-14. Elzerman presented a paper, "Mechanisms of Surface Enrichment."

FERTILIZER INSPECTION AND ANALYSIS

H. V. Rogers (Hd) was elected director of the Association of American Plant Food Control Officials at the annual meeting at Rapid City, SD, Aug. 7-8. He was chairman of the Environmental Affairs Committee

subcommittee on waste products and gave the committee report at the meeting.

FOOD SCIENCE

Syed S. H. Rizvi (Asst Prof) attended the American Institute of Chemical Engineers national meeting in Boston, MA, Aug. 19-22 where he was the keynote speaker at the symposium on "Food Packaging Materials and Their Properties." The topic of his presentation was "Packaging Requirements for Foods."

Donald M. Henricks (Prof) presented a report, "Undernutrition and Its Effects on Reproductive Efficiency in the Beef Cow," July 9 at the National Conference of Regional Projects on Reproduction at Purdue University, Lafayette, IN.

Prof. Henricks presented a seminar, "Neuroendocrine Aspects of Suckling in the Postpartum Beef Cow," to the USDA research staff at the U. S. Meat Animal Research Center at Clay Center, NB, Aug. 15.

FORESTRY

D. H. Van Lear (Prof) presented a paper, "Effects of Soil Amendments on the Forest Floor and Growth of Loblolly Pine," at the American Society of Agronomy meeting at Ft. Collins, CO.

On Sept. 17-20, the Department of Forestry, in cooperation with the University of Georgia, U. S. Forest Service, South Carolina Commission of Forestry, S. C. Wildlife and Marine Resources Department, Westvaco, and the U. S. Fish and Wildlife Service, sponsored a "Symposium on Multiple-Use Management of Forest Resources." The symposium was administered by D. D. Hook (Prof) and B. A. Dunn (Assoc Prof). The symposium addressed the problems faced in meeting the needs and demands of consumers and non-commodity users of forest land, analyzed the complex environment in which natural resource management decisions are made, and

discussed issues and provided expertise and guidance in the decision-making implementation and communication processes.

HISTORY

Charles H. Lippy (Asst Prof) presented a lecture and moderated a panel discussion on "The Black Church as Leader in the Black Community" on Sept. 11 at Furman University for Project ELECT, a program to strengthen minority leadership sponsored by the Greenville Urban League and the S. C. Committee for the Humanities.

HISTORY AND VISUAL ARTS

Thomas E. McPeak (Assoc Prof) participated in the following art exhibits: One Man Exhibit, Anderson County Arts Council, April 1979; Painting accepted in the Third Annual Sofa Art Exchange, Lenoir, NC, April 1979; Four paintings exhibited in the SC Festival of Flowers, Greenwood, July 1979; One Man Exhibit at the Pickens County Art Museum, Pickens, August 1979; Group Faculty Exhibit, Spartanburg Arts Center, Spartanburg, September 1979; One Man Exhibit, Erskine College, Due West, October 1979.

HORTICULTURE

A. R. Mazur (Assoc Prof) and Charles B. White (Former Grad Res Asst) presented "Influence of Putting Green Mixtures on Mineralization of Several Nitrogen Fertilizer Materials" at the annual meeting of the American Society of Agronomy in Fort Collins, CO.

DIVISION OF INFORMATION SYSTEMS DEVELOPMENT

John C. Peck (Director) and Elizabeth Davis (Systems Analyst) participated in the American Association for Public Welfare Information Systems Management Conference in New Orleans, Aug. 26-29, by demonstrating and explaining South Carolina's automated Medicaid Management

Information System (MMIS).

MATHEMATICAL SCIENCES

The Mathematical Sciences Department hosted during Sept. 9-11 the final visit of the Board of Advisors for the Clemson portion of the department's four-year NSF grant, "An Alternative in Higher Education in the Mathematical Sciences." The Clemson grant is part of a larger grant shared with the Mathematics Department at Washington State University. The program's many activities were planned by Clayton V. Aucoin (Prof), project director, and T. G. Proctor (Prof), associate project director. On Sept. 10, Prof. Aucoin presented to the Conference "A Summary of the NSF Grant," and John D. Fulton (Prof and Hd) presented "Prospects for the Future." A session on "Models Course Development" was led by Earl Burch (Prof, IM) and Ben Dysart (Prof, ESE). Prof. Proctor and former graduate students gave talks in a session on "Career Experiences of Mathematical Sciences Alumni." President Bill Atchley met with the NSF Advisory Board on Sept. 10. On Sept. 11, the Advisors met Arnold Schwartz, dean of the Graduate School, and Henry Vogel, dean of the College of Sciences. The NSF grant has supported the development of graduate programs in the Mathematical Sciences Department at Clemson which may serve as a model for programs of other mathematics and mathematical sciences programs in the future.

Renu Laskar (Prof) and J. A. Thas (Prof, Univ of Ghent, Belgium) published an article, "Some Generalizations of Partial Geometry," in Graph Theory and Related Topics, Academic Press, 1979, pp. 277-289. This article was based on an hour talk Prof. Laskar gave by invitation to the International Conference on Combinatorics held in Waterloo, Canada, July 1977.

Robert F. Ling (Prof) has been appointed to another three-year term as an associate editor of the Applications Section of the Journal of the American Statistical Association. He is also serving as an associate editor of the Book Review

Section of JASA.

R. E. Jamison (Assoc Prof) was the invited speaker at the University of Amsterdam (The Netherlands) Mathematics Colloquium Aug. 20 and spoke on his convexity characterization of tree-like spaces.

W. Robert Boland (Prof), E. R. Kamgnia (Washington State Univ), and J. S. Kowalik (Washington State Univ) had an article, "A Conjugate Gradient Optimization Method Invariant to Nonlinear Scaling," published in the Journal of Optimization Theory and Applications, 27 (1979), 221-230.

Prof. Boland is spending the year at the Air Force Weapons Laboratory, Kirtland AFB, NM, under the provisions of the Intergovernmental Personnel Act. At the AFWL, he is chief of the Mathware Support Section in the Computational Division and is responsible for the mathematical and statistical software libraries, provides a mathematical consulting and reference service, and serves as the principal AFWL representative to the SLATEC committee on mathematical software. He will also represent the AFWL at planning meetings and serve as a policy advisor and technical interface coordinator. The Computational Division operates the largest computing center within the Armed Forces.

MECHANICAL ENGINEERING

James G. Goree (Prof) presented a paper, "Analysis of a Unidirectional Composite Containing Broken Fibers and Matrix Damage," at the 16th Annual Meeting of the Society of Engineering Science at Northwestern Univ., Sept. 5-7.

MUSIC

John H. Butler (Prof and Hd) conducted the orchestra for the Anerson Community Theatre production of South Pacific Aug. 23-Sept. 2.

NURSING - BACCALAUREATE PROGRAM

Lynne A. Hall (Instr) has published an

abstract, "The Effect of Nurse Teaching on the Primipara's Perception of the New-born," in American Journal of Nursing, Vol. 79, No. 9 (Sept. 1979), 1573.

PHYSICS AND ASTRONOMY

John R. Ray (Prof) and Eric Johnson (Undergrad Stu) have recently published an article in The Physics Teacher, Vol. 17, page 392, Sept. 1979, entitled "Removing the Buoyant Force - a Follow-up."

PLANNING STUDIES

Barry C. Nocks (Assoc Prof) presented a lecture, "Influencing of the Textile Industry on the Physical and Social Development of Greenville," to the Upper South Carolina's Textile Heritage - a Case for Preservation, on Sept. 13, at the Poinsett Hotel in Greenville. The conference was sponsored by the Greenville County Historical Preservation Commission, Textile Place Project Committee and the City of Greenville.

PLANT PEST REGULATORY SERVICE

V. H. McCaskill (Pesticide Supervisor) presented a paper on the "South Carolina Pesticide Control Act and Its Relationship to Aquatic Pest Management" at the first annual meeting of the S. C. Aquatic Plant Management Association in Moncks Corner, Sept. 13-14.

PROFESSIONAL DEVELOPMENT

J. Michael McDonald (Asst Prof, IM) is chairperson for a one-day seminar, "Professional Development for Secretaries," to be held Oct. 17 at the Clemson House.

Jean Woodruff (Instr, IM) is chairperson for a two-day workshop, "Letter and Report Writing Workshop," to be held at the Holiday Inn in Clemson, Oct. 22-23.

Paul F. Petersen (Instr, IM) is chairperson for a two-day seminar, "Resident

First Aid Instructor," to be held Oct. 24-26 at the Clemson House.

Thomas B. Maertens (Asst Prof, IM) and Prof. McDonald are co-chairpersons for two courses to be held at Clemson University: "How to Delegate Effectively," to be held Oct. 29-30, and "Communication and Interviewing Skills," to be held Oct. 31.

RECREATION AND PARK ADMINISTRATION

Mike Ellerbrock (Instr) spoke at the Annual Convention of the S. C. Innkeepers' Association at Hilton Head Sept. 17 on "Analyzing the Demand for Hotel/Motel Services in South Carolina." Ellerbrock spoke to the Clemson Rotary Club Sept. 17 on "How Consumer Behavior in Travel and Tourism Undermines Government Economic Policy."

ZOOLOGY

Richard R. Montanucci (Assoc Prof) has recently received a grant, "Electrophoretic Analysis of Hybridization Between Two Species of Collared Lizards," for \$1,328 from the National Geographic Society.

The following papers were presented at the 42nd annual meeting of the American Society of Limnology and Oceanography, Marine Sciences Research Center, SUNY at Stony Brook, NY, June 18-21, by J. E. Schindler (Assoc Prof) and his graduate students:

Freedman, M. L., P. M. Cunningham, J. E. Schindler, and M. J. Zimmerman, "The Effect of Lead Speciation on Toxicity."

Giammatteo, P. A., J. E. Schindler, J. M. Shaw, and T. Heard, "Trophic Consequences of Si in Chlorella pyrenoidosa."

Hains, J. J., J. E. Schindler, and K. D. Getsinger, "Spring Mixes in a Deep South-eastern Reservoir."

Schreiner, S. P., J. E. Schindler, C. E. Connell, M. L. Freedman, P. A. Giammatteo, J. J. Hains, J. M. Nestler, and M. C.

Waldron, "Temporal Energy Exchanges in a Blackwater Solution Lake."

Indicator of Microbial Activity in Aqueous Environments."

Waldron, M. C., M. L. Freedman, and J. E. Schindler, "Tetrazolium Reduction as an

Zimmerman, M. J., "Chemical Speciation and Sorption by Chlorella."

Calendar of Campus Events

- 1-6 -- Musical Comedy: The Apple Tree by Jerry Bock and Sheldon Harnick. Presented by Clemson Players, Daniel Auditorium, 8 p.m. nightly except 3:30 p.m. matinee Thursday. Open to the public, no admission charge.
- 2 -- Soccer: Georgia State, here, 3:30 p.m.
- 3 -- Speakers Bureau Presentation: David Toma, known as the "compassionate cop" from Newark, NJ. Brackett Auditorium, 8 p.m. with a reception following. Open to the public, no admission charge.
- 3 -- Lecture: "Catching the Students' I: Teaching Literature Subjectively" by Dr. John J. McLaughlin. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 3 -- Art Exhibition: "Marson Ltd." One day exhibition and sale of original oriental art from 18th century to present day artists. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 10 a.m. - 5 p.m. Open to the public, no admission charge.
- 3 -- Workshop: "Techniques of Neurological Assessment" by Ann Rawlings, visiting instructor in College of Nursing. Sponsored by EMS Project of Continuing Education Department of College of Nursing. Open to registered nurses only, pre-registration required. Call 656-3078 for more information.
- 3 -- Workshop: "Practical Skills in Managing People." Sponsored by Professional Development Office. Call 656-2200 for more information.
- 3-6 -- International Crafts Sale. Sponsored by University Union, Palmetto Room of Union. Wednesday and Thursday, noon - 8 p.m.; Friday, noon - 6 p.m. Saturday, 9 a.m. - noon. Open to the public, no admission charge.
- 5 -- Cartoon Special. Sponsored by University Union, Edgar's Night Club, immediately following Tigerama. University I.D. and proof of age required, no admission charge.
- 5-6 -- Coffeehouse: Robin and Linda Williams. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation requested.
- 5 -- Tigerama. The all-student produced variety show featuring a pep rally, the crowning of Miss Homecoming, skits by six campus groups, and a large fireworks display. Memorial Stadium, 7:00 p.m., open to the public, 99¢ admission charge.
- 5 -- Soccer: Cleveland State vs. Appalachian State, 2 p.m.; Davis and Elkins vs. Clemson, 4 p.m., here.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 5-29 -- Art Exhibition: "America's Architectural Heritage." More than 200 photographs depicting outstanding examples of architecture in America. Also on exhibit, recent residential and commercial projects by a former Clemson student and recent watercolors of Italian seacoast and landscapes by the dean of the College of Architecture. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 6 -- Football: Virginia (Homecoming), here, 1 p.m.
- 6 -- Block and Bridle Club Horse Show. Events include Western and English classes. Sponsored by Animal Science Department and Block and Bridle Club, horse arena off Anderson Hwy., 9:30 a.m. - 5 p.m. Open to the public, no admission charge.
- 7 -- Soccer: Davis and Elkins vs. Appalachian State, 1 p.m.; Cleveland State vs. Clemson, 3 p.m., here.
- 7 -- Bike Trip on the Blueridge Parkway. Sponsored by University Union, details and sign up at Union Information Desk. University I.D. required.
- 7 -- Free Flick: "Billy Jack." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 8 -- German Film: "The Broken Jug." Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 9 -- Concert: Marc Regnier, guitarist. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 10-11 -- Roommate Game. Students try to see just how much they know about their roommates. Sponsored by University Union, Palmetto Room of Union, 8 p.m. Open to the public, no admission charge.
- 10 -- Workshop: "Communication and Listening to Improve Productivity." Sponsored by Professional Development Office. Call 656-2200 for more information.
- 10-11 -- Workshop: "How to Utilize the Computer to Improve Your Management Ability." Sponsored by Professional Development Office. Call 656-2200 for more information.
- 12-13 -- Coffeehouse: Local talent. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation requested.
- 13-14 -- Overnight Backpacking Trip. Sponsored by University Union, details and sign up at Union Information Desk. University I.D. required.
- 13 -- Workshop: "Techniques of Venipuncture" by Veronica Rempusheski, instructor in College of Nursing. Sponsored by EMS Project of Continuing Education Department of College of Nursing. Open to registered nurses and licensed practical nurses, pre-registration required. Call 656-3078 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

14 -- Free Flick: "Go West." Sponsored by University Union, YMCA Theater,
8 p.m. University I.D. required, no admission charge.

14 -- Soccer: University of South Carolina, here, 2 p.m.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 5

OCT 1 - 1979

October 15, 1979



CLEMSON
UNIVERSITY



UNITED WAY DRIVE BEGINS

With a challenge from Clemson President Bill Atchley for the University "to take the leadership and show the way in this endeavor," about 70 volunteers participated in the kickoff of a campus-wide United Way drive Oct. 1.

Atchley told the workers who came out for the 7 a.m. session at the Clemson House that the United Way campaign "is a way we can join together in helping many people. I'll be behind it 100 percent," he said.

He has been active in United Way campaigns at both Missouri and at West Virginia University, and said, "United Way has been something very close to me for a long time."

The campus solicitation--which runs through Oct. 26--is part of the overall campaign under way in the tri-county area. University employees can designate their gifts for United Way programs in the county of their choice.

Horace W. Fleming Jr., campus campaign chairman, told the group the drive is "an outstanding opportunity to contribute to the community in which we live. He said the campaign will be accomplished in two major parts.

Fleming, who serves as president of the Faculty Senate, said every Clemson employee should receive a brochure and pledge card through the interoffice mail. Volunteers will then make follow-up contacts to answer questions and encourage participation.

SOCIAL PSYCHOLOGISTS TO MEET HERE

"Social Psychology: Trends During the 1970s" is the theme for the second annual fall conference of the Society of South-

eastern Social Psychologists to be held in Clemson Oct. 20.

The society, a regional group which facilitates communication among social psychologists, is sponsoring the meeting along with Clemson University. The conference will be held at the Holiday Inn.

Registration will be held Oct. 19 from 6-9 p.m. and on Oct. 20 from 8-10 a.m. Sessions begin at 9 a.m.

David J. Senn of the Psychology Department is present site coordinator.

ARTIST TRAINING PROGRAM COMING TO PICKENS COUNTY

Community Artists Residency Training (CART), a program which focuses on the development of support for the performing arts at the community level, is coming to Pickens County through sponsorship of the Pickens County Arts Commission.

CART week is scheduled for Nov. 12-17 and will be celebrated by seven free informances (informal performance) which will be held in a variety of settings throughout Pickens County.

Michael Riley, a baritone singer, will be the guest artist. The week's events will be capped off by a formal performance scheduled for Sat., Nov. 17, at 8 p.m. in the auditorium on the campus of Central Wesleyan College.

For further information, call Terry Jarrard Dimond at 878-4965.

FACULTY FORUM TO BE HELD ON WEDNESDAYS

University faculty and staff are invited to attend a Faculty Forum from noon-1 p.m.

each Wednesday of the school term for the purpose of interdisciplinary conversation and stimulation.

The informal hour will consist of a presentation by a faculty member of significant and current ideas in his/her respective field to be followed by group discussion.

Sponsored by the Clemson Campus Ministers Association, the program will be held at the Baptist University Center at 102 Oak Terrace overlooking the campus. Bring a sack lunch; beverage is provided.

For further information, call Sidney Hall at 654-4101.

PROPOSALS FOR FACULTY RESEARCH COMMITTEE GRANT APPLICATIONS BEING ACCEPTED

Proposals for Faculty Research Committee grants should be in the Office of University Research (107 E-Martin Hall) not later than Nov. 1, 1979. Application forms may be secured in the Office of University Research. Only proposals using the Faculty Research Committee application form will be considered by the committee.

The committee makes awards to new faculty members initiating research, to faculty members initiating research in a new area, and to faculty members in areas where other sources of support are inadequate or nonexistent.

ACCOUNTING AND FINANCE

George Thomas Friedlob (Asst Prof) has published the following: an article, "Effect IRS Gives to Stock Restrictions Varies," Taxation for Accountants, June 1979; a paper "From Tick to Talley - The Historical Development of Governmental Auditing to 1900," Proceedings, Midwest American Accounting Association, April 1979, with C. W. Dungan (Grad Stu, Univ Ill). Prof. Friedlob presented the following papers, "Student Readiness and Community College Accounting Principles: An Empirical Study" and "Empirical

Analysis of the Impact of High School Bookkeeping Background on Accounting Principles Success," at the Midwest Business Administration Association Meeting in April 1979. He presented these papers with R. M. Cosenza (Prof, Memphis State) and W. B. Williams (Prof, Columbia State Community College).

Robert W. Rouse (Assoc Prof) presented a Continuing Professional Education course, "Financial Reporting of Leases," to the Low Country Chapter of the South Carolina Society of CPA's, Aug. 19 in Charleston.

Glenn S. Carew (Asst Prof) was elected president by the Board of Directors of the Palmetto Chapter, Data Processing Management Association, Aug. 29. Prof. Carew will serve as president of the 128-member organization for the upcoming calendar year. In his capacity as president-elect, Prof. Carew attended a meeting of Presidents-Elect and International Directors held at Montgomery, AL, Sept. 14-15.

DPMA is an international organization of approximately 27,000 data processing professionals. The principle objective of the association is the advancement of the technical and managerial skills of its members.

In addition, Prof. Carew was recently notified of his appointment as a consultant to the U. S. House of Representatives. He has been selected to assist the Committee on House Administration in exercising its oversight jurisdiction of the Federal Election Commission.

On March 27, Prof. Carew testified before the Committee on House Administration which was considering H.R.1, a bill to provide public funding for Congressional races. His appointment is an outgrowth of that testimony.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

B. L. Dillman (Prof) and Thomas J. Murray (former Grad Res Asst) published An Industrial Quality Index of Alternative Developments, Technical Bulletin 1075,

S. C. Agricultural Experiment Station.

J. C. O. Nyankori (Asst Prof) and E. R. Swanson (Univ of Ill) co-authored an article, "Influence of Weather and Technology on Corn and Soybean Yield Trends," in Agricultural Meteorology, 20:327-342.

B. H. Robinson (Prof) attended the annual National Public Policy Conference at Provincetown, MA, Sept. 17-21. Prof. Robinson also chaired a meeting of the Southern Extension Public Affairs Committee during the conference.

G. J. Wells (Asst Prof) and Paul R. Johnson (NC State Univ) co-authored an article, "The Impact of Entry into the European Community on the Pattern of United Kingdom Wheat Imports: Projections to 1980," in North Central Journal of Agricultural Economics, Vol. 1, No. 2, July 1979.

BOTANY

R. E. Ballard (Asst Prof) was elected to the Board of Directors of the S. C. Aquatic Plant Management Society at the annual meeting held Sept. 13-14 at Wampee.

C. R. Dillon (Hd) was elected vice president and president-elect of the S. C. Aquatic Plant Management Society at the same meeting.

L. A. Dyck (Assoc Prof) presented a paper, "Are Indoles Growth Regulators in Charophytes?" at the Annual Meeting of the Southeastern Phycology Colloquy held at the Duke Marine Laboratory, Beaufort, NC, Oct. 19-21.

CHEMISTRY AND GEOLOGY

Villard S. Griffin Jr. (Prof) had his report, "Diapirism, Polydeformation and Amoeboidal Tectonic Patterns in the Svecofennidic Area of Southwestern Finland," published as Report of Investigation No. 41 of the Geological Survey of Finland. This monograph represents research done in Finland during a sabbatical

leave from Clemson.

R. A. Abramovitch (Prof and Hd) was the first plenary lecturer to address the 7th International Congress of Heterocyclic Chemistry which was held at the University of South Florida in Tampa Aug. 12-17. Prof. Abramovitch spoke on the topic "Pyridine N-oxides" and summarized the work of his group in this area over the past 10 to 12 years.

Prof. Abramovitch's National Science Foundation grant for the project "The Chemistry of Nitrenes and Isoelectronic Intermediates" has been extended for a second year and the amount of funds increased by \$39,600 for that year.

Two of Prof. Abramovitch's co-workers presented contributed papers at the 7th International Congress of Heterocyclic Chemistry. The first by R. A. Abramovitch, R. Bartnik (Res Assoc), M. Cooper (Res Assoc), N. Dassayanake (Univ of Texas at Austin), H.-Y Wang (Univ of Texas), and M. N. Inbasekaran (Univ of Ohio) was entitled "Intramolecular Cyclizations Involving Aryl Oxenium Ions" and was presented by Melanie Cooper. The second by R. A. Abramovitch and J. Stowers (Grad Stu) was entitled "Aspects of the Chemistry of 1,2-Benzothiazepine 1,1-Dioxides" and was presented by Mr. Stowers.

COMPUTER SCIENCE

Edward W. Page (Assoc Prof) presented a paper, "A System for Microprocessor Emulation," at the MIMI-MONTREAL '79 Conference in Montreal, Canada, Sept. 27. The paper was co-authored with Mr. Gurbir Singh (Grad Stu, E&CE).

ELEMENTARY AND SECONDARY EDUCATION

William W. Pennscott (Prof) and Karin Burnitt (former Grad Stu) had an article, "The Learning of Helping Skills: A Techniques of Counseling Course," published in The South Carolina Personnel and Guidance Journal, Vol. II, No. 1, 1979.

INDUSTRIAL EDUCATION

William E. West (Prof) attended and served as general chairman of the American Vocational Associations Region II Fall Leadership Workshop, Sept. 20-23 in St. Petersburg, FL. Prof. West presented "Problems of State Associations" and "Issues Within Vocational Education." He currently serves as the association's vice-president.

Prof. West addressed the Oconee County Vocational Teachers during their Sept. 27 meeting.

INDUSTRIAL MANAGEMENT

Earl W. Arp Jr. (Assoc Prof) co-authored a chapter with Robert L. Harris (Prof, Director of Occupational Health Studies Group, Univ of North Carolina at Chapel Hill) entitled "The Emission Inventory" in a new book, Patty's Industrial Hygiene and Toxicology, Vol. 3: Theory and Rationale Of Industrial Hygiene Practice published by John Wiley and Sons on June 1.

Claude S. Simpson Jr. (Instr and Asst Dir of Prof Dev) addressed the initial meeting of the 1979-80 program year of the Cherokee County Chapter, International Management Council, which was held at Limestone College, Gaffney. Mr. Simpson's subject was entitled "Continuing Education as Related to Industrial Management."

David M. Swanson (Assoc Prof) has had his membership on the South Carolina District Export Council extended until June 30, 1981, by Juanita Kreps, Secretary of Commerce.

MATHEMATICAL SCIENCES

Thomas A. Carnevale (Vstg Prof) has been appointed a member of the Committee on Placement Examinations for a two-year term for the Mathematical Association of America.

John Kenelly (Prof) has been asked by the president of the Mathematical Association

of America to serve through January 1983 on the association's Committee on Placement Examinations. The six-member committee is responsible for the full range of mathematics placement examinations the association makes available for colleges and universities throughout the United States.

MUSIC

Lillian Harder (Instr), pianist, and Martha Hamilton (Instr), flutist, presented the opening concert of the Central Wesleyan Chamber Series, Sept. 20 at Folger Auditorium.

John H. Butler (Prof and Hd) appeared in the lead role in the Savoyards' production of Gilbert and Sullivan's "Pirates of Penzance" in Greenville, Sept. 28-30.

PROFESSIONAL DEVELOPMENT

Thomas B. Maertens (Asst Prof, IM) and James M. McDonald (Asst Prof, IM) are co-chairmen for a course, "Managing the Unsatisfactory Performer," to be held Nov. 1-2 on campus.

Jay Wayne Patterson (Asst Prof, IM) is course chairperson for a seminar, "How to Buy and Use a Business Minicomputer," to be held Nov. 1-2 at the Ramada Inn in Greenville.

Robert W. Rouse (Assoc Prof, Acct and Fin) is chairperson for a course, "Cost Calculation and Control of Industrial Operations," to be held Nov. 5-7 on campus.

A. Maureen O'Brien (Instr, Econ) is chairperson for a two-day seminar, "The Woman Manager," to be held at the Ramada Inn in Greenville Nov. 6-7.

William C. Whitten Jr. (Prof, Econ) is chairperson for a seminar, "Corporate Cash Management," to be held at the Ramada Inn in Greenville Nov. 8-9.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, Prof Dev) is chairperson for the following courses: "Planning and

Managing Warehouse Operations," to be held at the Ramada Inn in Greenville Nov. 8-9; and "Manager 2," to be held Nov. 12-13 on campus.

J. C. Hubbard Jr. (Prof, Text) is co-chairperson for a conference, "Slashing: Today and Tomorrow," to be held on campus Nov. 13-14.

James M. McDonald (Asst Prof, IM) is chairperson for a seminar, "Short Interval Scheduling," to be held Nov. 14 on campus.

TEXTILES

Donald W. Lyons (Prof) presented a paper at the 87th National Meeting of the American Institute of Chemical Engineers entitled "Establishing Feasible Engineering Control Technology for Safety and Health Hazards." Prof. Lyons was appointed by the Assistant Secretary of Labor for Occupational Safety and Health to serve as a reviewer for proposals submitted to the Department of Labor to support training programs in the field of safety and health. Prof. Lyons is one of six university professors to serve as reviewers. The Department of Labor will award \$11 million this year to support safety and health training.

Broadus L. Rutledge (Assoc Prof) presented a paper, "Basic Statistics for

Quality Control," at the fall meeting of the Textile Quality Control Association.

Frederick T. Simon (Prof) attended the 19th meeting of the International Commission on Illumination in Kyoto, Japan, as an official representative of the U. S. National Committee on Colorimetry in which he presented results of several pieces of research done at Clemson University. Prof. Simon also attended the meeting of the International Color Association in Tokyo, Japan, which was dedicated to discussions of Color Appearance.

Michael J. Drews (Asst Prof) presented an invited paper, "Polyester Surface Effects on the Binding Efficiency of a Foamed Acrylic Latex," as part of a symposium on Binder Coatings in the Textile Industry at the 178th American Chemical Society National Meeting held in Washington, DC, Sept. 9-14.

Hassan M. Behery (Assoc Prof) attended a NATO Advanced Study Institute on Mechanics of Flexible Fiber Assemblies at Killini, Greece, Aug. 19-Sept. 2. He served as a rapporteur for the session "Mechanics of Twisted Yarns, Cords and Ropes."

Edward A. Vaughn (Prof and Hd) had an article, "Prediction of Fabric Hand from Mechanical Properties of Woven Fabrics," published in the Journal of the Textile Machinery Society of Japan, Vol. 32, No. 6, pp. 43-52.

MINUTES OF THE COUNCIL OF ACADEMIC DEANS

August 13, 1979

Lee Hall Conference Room

The Council of Academic Deans met on August 13, 1979 in the Lee Hall Conference Room with the following present: Dean Hurst, Dean Anderson, Dean McClure, Dean Landrith, Dean Wilcox, Dean Box, Dean Trevillian, Dean Cox, Dean Labecki, Ms. Dillon (for Dean Vogel), Dean Farrell Brown (for Dean Schwartz), Dean Willis, Dr. Jerry Reel, and Dr. Fleming.

Dean Hurst welcomed Dr. Jerry Reel who has been appointed as Acting Dean of Undergraduate Studies effective August 15, 1979. He gave a brief description of Dr. Reel's qualifications and experience.

Three curricula changes in the College of Education that had been approved by the Undergraduate Council at its March 2, 1979 meeting, were approved by the Council of Academic Deans: Vocational-Technical Education Option; Industrial Arts Education Option; Education for Industry Option.

Dean Hurst stated that President Atchley will be meeting with several groups over the next year. Dean Hurst is presently arranging for him to meet with faculty members in various departments; luncheons are being arranged for the President and college senators; the Alumni Professors are scheduled to meet with the President; and the deans will be meeting with the President as soon as it can be arranged. Dean Hurst explained that it will be necessary for the President to be away from the campus frequently.

Dean Hurst informed the deans that they should not make a definite commitment to a person being considered for an administrative post until the President has had opportunity to meet with the prospect.

There was a discussion regarding the manner in which faculty promotions are announced. Dean Cox had earlier suggested that instead of the promotion letters being mailed from Dean Hurst to the faculty that the letters be given to the appropriate college dean, who in turn would make a ceremony of distributing the letters and making the announcements at his individual College Faculty Meeting in August. The deans were generally in favor of the idea although they felt there were some minor questions to be considered. Dean Hurst felt that any new method of announcing faculty promotions would have to be done university-wide or not at all, and he recommended that it be discussed later after the deans have had time to consider.

Dean Hurst announced that President Atchley will hold his reception for new faculty and staff on August 23 in the lobby of the Clemson House from 7:30 p.m. until 10:00 p.m. The deans were requested to set up a schedule in their colleges whereby their departments will be staggered over that period to facilitate an even flow.

Dean Hurst announced that the orientation packets for new faculty and staff may be picked up by the deans at his office.

Dean Hurst distributed a proposed memorandum from himself to the Academic Deans on the subject of "Communications." He requested the deans to study the

substance of this proposed memorandum and to advise him regarding the formulation of a policy in this regard. He made it clear that faculty and staff will always be free to write to the members of the General Assembly, Trustees, and any other public corporate officials on matters that concern them as an individual citizen. However, on matters that are related to the official business or official policy of Clemson University, he feels that the nature of such communications should be made known to the President and college dean, and any other persons who need to be kept informed. Dean Hurst further stated that he would not do anything without receiving the advice of the deans, legal counsel, and the Faculty Senate. Dean Wilcox stated that his college has a policy whereby everything goes through the department head and dean, and they determine if copies should go to the President. Dean Hurst requested Dean Wilcox to document this in writing to him.

Dean Hurst distributed, as information only, a memorandum from Dr. James C. Hite which included a draft table excerpted from a dissertation recently completed under Dr. Hite's direction. This table presented estimates of the number of BA/BS graduates, by major curricula, from state-supported institutions in 1976, and projections of the number required annually to meet anticipated openings through 1985.

Dean Hurst distributed a memorandum from William T. Putnam addressed to "Heads of All State Agencies and Institutions" and which included two resolutions on Energy Conservation.

Dean Hurst distributed copies of EMPLOYEE HANDBOOK (Faculty Edition) which was recently printed by our Personnel Division. Dean Hurst asked the deans to review this handbook and determine if they would like it reproduced for their faculty.

Dean Hurst distributed materials relative to an action approved in the "Meetings of the Deans and Directors of the Clemson Agricultural College" on August 15, 1949, as follows: That no credit be given transfer students for work completed elsewhere with a grade of 'D' (or the equivalent lowest passing grade) unless it will be followed by a subsequent 'C' or higher grade in a course of the next level at the same institution. Dean Hurst asked the deans to consider the matter (which was also discussed at the deans' meeting of June 11, 1979) and be prepared to discuss it further at the next meeting.

Dean Farrell Brown announced that the 3rd annual Graduate Advisor's Workshop will be held in duplicate sessions on August 29 and 30. An announcement regarding time and place is forthcoming.

There was a general discussion regarding the manner in which admissions are handled, particularly with transfer students. The deans feel the process needs to be reviewed and a policy be developed. Dean Hurst stated that the Faculty Senate also is wanting an admissions policy and he requested Dr. Fleming to have the Senate write up a policy and submit it to him.

President Atchley has indicated to Dean Hurst that he would like to have some of the detailed information deleted from the NEWSLETTER, particularly when the information is 2-3 months old before being printed. There was a general discussion as to what is considered trivia and what is important--and who should be the judge. There will be further discussion on this subject later.

Dean Willis stated that the FTE situation is being reviewed with Darrell Hickman. He cautioned the deans in amending PAR's where other monies might be

dropped and state monies added. He further stated that DAPS and the Business Office are working out a system to establish a "Position Data File" that will facilitate the monitoring of positions in the future.

Dean Willis announced that our payroll system can now handle payroll deductions for the United Way.

Dean Willis, who has served as a member of the Group Term Life Insurance Committee, reported that the policy year which ended May 1, 1979 was a good year in terms of monies paid-in versus monies paid-out.

Dean Willis reported that the Physical Plant will be making changes in buildings to accommodate the handicapped.

Dean Willis referred to a memorandum sent to the deans earlier by Dean Hurst to the Academic Deans regarding those persons in Visiting status. In order for him to move from visiting status to a tenure track position, he must apply for the position along with all other applicants in order to stay within the equal opportunity requirements.

Dr. Reel announced that the Undergraduate Council will meet on September 14 and materials to be considered must be in his office by Wednesday, August 29. Dean Farrell Brown stated that this same timetable applied to the Graduate Council.

A resolution in memory of Dean Claud B. Green was presented by Dean H. M. Cox, and was adopted by acclamation. A copy of this resolution is attached.

The meeting was adjourned at 10:55 a.m.

Respectfully submitted,

Annette H. Kesler

AHK/ep

CLAUD BETHUNE GREEN

1914-1979

During the thirty-nine years of his tenure at Clemson, Dr. Claud Green served the University faithfully and well in many capacities: as Professor of English, as Acting Head of the Department of English, as Director of the Summer Sessions, as Assistant Dean of the University, and as Dean of Undergraduate Studies. To all these positions and duties he brought a keen intellectual and moral conscience, a sober and humane outlook, a disarming wit, a sense of reason, and a natural dignity that earned him the affection and respect of students and colleagues alike. His contributions to the life of the University as a scholar-teacher, as an administrator, and as a warm and admired human being have been many and varied, and his passing saddens and deprives all who have been touched by his influence.

Be it resolved, therefore, that the members of the Council of Academic Deans of Clemson University in session assembled on August 13, 1979, express their sorrow and sense of loss in Dean Green's untimely passing, their appreciation of his long and faithful service to the University, and their sense of gratitude for the years of pleasant and fruitful association with him.

Be it resolved further that this resolution be signed individually by all members of this body, that it be placed in the permanent records of the Council, and that a signed copy be sent to Mr. Henry Tate Green, brother of Dean Green.

Victor Hurst

Vice President for Academic
Affairs and Dean of the
University

Robert J. Anderson

Dean, College of Agricultural
Sciences

William Gilmore

Dean, College of Architecture

Harold F. Lindrith

Dean, College of Education

John C. Cawthon

Dean, College of Engineering

Benton H. Box

Dean, College of Forest and
Recreation Resources

Wallace W. Terwilliger

Dean, College of Industrial
Management and Textile
Science

H. Morris Cox

Dean, College of Liberal Arts

Rosaline Lohr

Dean, College of Nursing

Henry Vogel

Dean, College of Sciences

Arnold E. Schwartz

Dean, Graduate Studies and
University Research

Sam M. Wallis

Dean, University Extension

MINUTES OF THE FACULTY SENATE

August 28, 1979

Senate Chamber

1. Call to Order

The meeting was called to order by President Fleming at 3:32 p.m.

2. Approval of Minutes

The Minutes for July 17, 1979 were approved as written.

3. President Fleming introduced the editor of The Tiger, Mr. Jim Stovall, and Dr. John Gowdy, who will replace Senator Hester for the remainder of the academic year.

4. Normal procedures were suspended and President Fleming introduced the special guest of the Senate, Dr. Bill L. Atchley, President of Clemson University.

A Synopsis of Dr. Atchley's Remarks:

Dr. Atchley stressed that lines of communications at Clemson are of paramount importance to him. He observed that no existing structure or procedure is sacred, and he is undergoing a thorough examination of existing offices and structures. Faculty salaries will be a priority item this year, and merit will be stressed in considerations of tenure, promotion, and raises. The overall tenure picture must be approached realistically; tenure must be based on productivity; individual faculty members must be kept informed as to what is expected of them prior to gaining tenure.

Dr. Atchley expressed sympathy concerning the desire for faculty participation in academic rules and procedures, but pointed out that faculty already have significant input through their department heads and in their ability to influence their colleges. The higher levels of administration, however, retain the power to take into account the broadest considerations of policy. The key to the interrelationship is communication. President Atchley asked for more time before he responds in a formal way to the proposed Faculty Constitution. As for the present, the students come first, the faculty second, and the administration comes third. The Faculty Senate represents the faculty as a whole and it must be sure to do so responsibly. Until things get sorted out, the Faculty Senate President will be included in Cabinet meetings.

Dr. Atchley expressed support for the Graduate Programs, noting some concern about our ability to attract high quality students. He will work to increase graduate stipends. He also indicated support for adequate Library holdings, travel, and sabbatical leaves. While generally supporting a better cultural environment, the President stated that whereas a fine or creative arts center is needed, there are no expectations for a College or Department of Fine Arts due to a lack of resources and a concern over duplication of current programs.

Dr. Atchley's remarks were followed by questions from the Senate. A brief synopsis of his answers follows:

- Dr. Atchley feels that the current budget formula of the Commission on Higher Education is a big step forward, but it could be improved. At present, Clemson stands to get a 25% increase in state funds as a result of the new formula (if they are available from the state).
- Dr. Atchley has not given much thought to the impact of an increased enrollment on the community as a whole in terms of urban blight, housing costs, traffic, demands for service, crime and other problems. He feels that we are going to have these problems anyway, but he is agreeable to consulting with the community leadership should changes in enrollment occur.
- Dr. Atchley believes that there is a need for a Business Guidance Committee for coordinating the relationship between Clemson and the business community. However, the impetus for this must come from the faculty and department heads, rather than from the top.
- Whereas President Atchley is aware of the increased professionalism of this faculty over the recent past, and the subsequent increase in the ability of faculty to make an impact on decision-making, he feels that the proper response for the new administration is to listen to the faculty and to see that the input process is not diluted. He does not favor the institution of the department chairman system over the department head system, feeling that a central locus of authority is desirable.
- Dr. Atchley feels that teaching and research are intertwined; they both should be designed to teach students, which function, he feels, is the main purpose of the University.
- The President will work to iron out problems with regard to the Physical Plant's service to the academic community. He will also work to do away with non-productive committees.
- President Atchley expressed some confusion as to the precise nature of the "Admissions Policy" problem. He indicated a willingness to be briefed on the situation by the Faculty Senate and others with regard to the parameters of the situation. He acknowledged that the Faculty Senate study on the subject would be helpful.
- Dr. Atchley expressed some concern about the advisement of students by faculty. He feels that there is room for improvement in some departments. He also believes that faculty members can be accurately evaluated by administrators. He was imprecise as to methods.
- Dr. Atchley expressed sympathy for the establishment of an Anthropology/ Archeology Department and a Philosophy Department, but suggested that these things will come only when we can afford them and that such considerations as these must meet the tests of justification and the mission of the University.
- After expressing his desire to improve the published communication between the administration and the faculty, Dr. Atchley concluded his remarks.

The meeting was adjourned at 5:03 p.m.

5. Reports by the 4 major committees and the President of the Faculty Senate are attached.

Respectfully Submitted

E. M. Coulter

Edwin M. Coulter
Secretary

EMC/ep

Enclosures

Faculty Senate Policy Committee Report

August 28, 1979

The Faculty Senate Policy Committee has not met during the past month. However, the following items of work are reported:

1. Faculty Evaluation Forms and Procedures:

The report of the Faculty Senate on the review of the Ad Hoc Committee's Report was favorably received by Dean Hurst. The forms that were sent to the printer on August 27, 1979 include most of our suggested improvements.

The rating scale on Form 1 - Faculty Evaluation Worksheet will be a 6 column grid with ratings for Excellent, Very Good, Good, Fair, Marginal and Unsatisfactory. Dean Hurst believed it to be imperative that the rating scale include provisions for recognizing "excellent" faculty work.

The revisions in Form 3 - Evaluation Summary were accepted.

Form 1 remains as previously printed but will be Form 2 in the 1979-80 Faculty Evaluation system.

2. The policy committee has no additional work to report in relation to the Faculty Constitution.
3. The Policy Committee will meet on Tuesday, September 4, at 3:00 p.m. in Room 101 Freeman Hall. The tentative agenda is:
 - a. Report on Faculty Evaluation Forms
 - b. Review of Faculty Constitution work
 - c. Initial work - Organization
 - 1) Faculty Titles (Visiting, Adjunct, Lecturer, etc.) Responsibilities-benefits-etc.
 - 2) Status of Faculty/Student (Administration Committee, Student Handbook Notation)

Welfare Committee

Report to the Faculty Senate - August 28, 1979.

The welfare committee is involved with the following issues:

1. Salary survey
2. Fringe benefits
3. Retirement system - Death benefits to families
4. Graduation exercise - Awarding of honorary degrees
5. Summer school employment
6. Grievance procedure
7. Review of support for the Faculty Senate President

At the September meeting of the Senate we expect to present a proposal for changes in the graduation ceremony and to invite discussion of proposals for the awarding of honorary degrees. We also expect to introduce a resolution on summer school employment. The salary survey done by the business office should be available for distribution and discussion.

We will be discussing with Mr. Hickman a fringe benefits study his office will be doing. This will involve a review of benefits at the same group of peer institutions as used for the salary study.

The committee has requested through the Senate president, a written statement by the administration as to the appropriateness of the grievance procedures in the faculty manual, in light of the new state grievance procedure.

The welfare committee will be meeting with Mr. John Gentry and University representatives to the State Employees Association to discuss the state retirement system, with specific discussion of our concerns relating to the death of an employee while in service. The committee also expects to review with the President of the University the present retirement system and to advise him of our concerns.

The committee will also be reviewing with the President of the Faculty Senate and past presidents, the need to provide additional support for this office.

Submitted August 28, 1979
William Baron, Chairman



Admissions and Scholarship Committee

The committee did not meet this past month. However, we will meet next Tuesday, September 4, at 3:30 p.m. in the Library Classroom. On the agenda is a preliminary discussion of the present Admissions Policy and the determination of the committee's priorities for this year. As our principal task will be the drafting of proposals for a new Admissions policy, we welcome--indeed, encourage--anyone interested to attend our meetings.

Respectfully submitted,

Alan Grubb
Chairman

August 28, 1979

FACULTY SENATE RESEARCH COMMITTEE REPORT

The research committee is continuing to work on the revision of the copyright policy.

Ben W. Anderson, Assistant University Counsel, has agreed to the Faculty Senate's request for legal assistance in drafting a University copyright policy. He will work with and will advise the research committee on legal aspects of any proposed copyright policy.

Bill R. Smith, Chairman 

President's Report
August 28, 1979

1. A schedule of President Atchley's luncheon meetings with members of the Faculty Senate (by college) is attached. In addition, President Atchley will meet with faculty on a departmental basis throughout the academic year. The latter meetings are being arranged and coordinated by Dean Hurst, and questions about them should be referred to his office. Dean Hurst was instrumental in arranging the luncheons for Faculty Senators with Dr. Atchley.
2. Professor John N. Gowdy (Electrical and Computer Engineering) has been elected to serve in the Senate as J. C. Hester's replacement until August 14, 1980. I know you join me in welcoming John to the Senate.
3. The Council of Academic Deans met August 13, 1979. The following actions taken or announced at that meeting are of particular interest to the Faculty Senate.
 - a. The Faculty Senate was requested to draw up an admissions policy and submit it to Dean Hurst. The Council agrees with the Senate that the admissions process is in need of review at this time.
 - b. In order for a faculty member in the status of visiting faculty to move to a tenure track position, he/she must compete with all other applicants in order to stay within equal opportunity requirements.
 - c. The deans soon will begin to discuss alternatives to the way faculty promotions are presently announced and recognized. It has been suggested by one member of the Council that, instead of having the promotion letters mailed from Dean Hurst to the faculty concerned, they be given to the appropriate college dean who, in turn, would make a ceremony of distributing the letters and making the announcements of the promotions at the college faculty meetings in August. If you have suggestions, I will be happy to pass them on to the Council, or you may wish to speak with your dean about the matter.
4. Orientation for new faculty and staff was held August 16, 1979. The one-day session, organized and led by Dean Willis, was well-attended and well-received by our new colleagues. I want to thank our vice-president, Stassen Thompson, Senators Hal Harris, Gordon Gray, Don Ham, George Worm, Bob Rouse, Jim Schindler and David Snipes for their assistance with the session.

President's Report

August 28, 1979

Page Two

5. In a memorandum to the academic deans dated August 24, 1979, Dean Hurst has announced that those seeking to travel to foreign countries (exclusive of Canada) will have their request forwarded to the State Budget and Control Board, provided that a good cause can be shown for such travel. A maximum of \$750 may be authorized from state-appropriated funds for travel, subsistence and other related costs. However, according to the memorandum, "We must all keep in mind that travel allowances up to \$750, although justifiable in their own right, may affect travel privileges of others in the department who could and should attend meetings of a domestic nature."
6. At the direction of the Welfare Committee, I have sent an inquiry to Dean Hurst concerning the extent to which--if any--provisions of the recently-promulgated, newly-amended state and University grievance procedures conflict with or supersede those separate grievance procedures set forth in the Faculty Manual on pages 34-39. As you can see from my letter to Dean Hurst, the Welfare Committee has requested a written response to this inquiry.
7. Copies of the five-year permanent improvements projections, compiled by the Office of the Vice President for Development, have been distributed to members of the Senate Advisory Committee. These are summaries only. You may wish to get a copy from one of the committee members or from me for review.
8. The Personnel Division has published the Employee Handbook, Faculty Edition. Copies of this document also have been distributed by me to members of the Advisory Committee and are thus available for your review. I would also welcome your comments on this publication, so that I may pass them along to the appropriate University officials.
9. In response to several questions directed to me, I have inquired of Dean Hurst and Admiral McDevitt about the progress made in developing procedures or guidelines to govern early retirement and retirement after age 65. There are some differences of opinion about the need for any further policy statements beyond the revised state retirement law (S. C. Code ss9-1-1530--1550) and the 1978 decision of the S. C. Supreme Court in University of South Carolina v. Batson, et al. We will be discussing the matter further, and the Senate may be called upon for some further assistance in addressing this issue. I will keep you informed.
10. The Advisory Committee met August 25, 1979.
 - a. The Committee directed that an appropriate tribute to the late Dean Claud B. Green be prepared for presentation to the Senate at our September 1979 meeting.

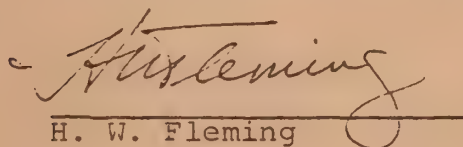
President's Report
August 28, 1979
Page Three

- b. The Committee discussed developments subsequent to Dean Hurst's memorandum of July 27, 1979 on the matter of verification of faculty credentials by means of official transcripts. It was the Committee's understanding and mine as well that only faculty employed by the University after July 1, 1980 would be required to furnish--at their own expense--official transcripts of all academic work completed. But, apparently, that is not true. Certain college deans have continued the earlier transcript requirement. At least one department has simply required faculty to sign a waiver granting access by the department to their transcripts, whereupon the department would next write for and pay for the faculty member's transcripts. Still other colleges and departments are requiring letters of verification of degrees held from the faculty member's university or college of record. Such variation in requirements by college are of concern to the Committee, and I have been asked to seek clarification from Dean Hurst concerning our earlier understanding that all requirements that faculty employed prior to July 1 must furnish official transcripts had been rescinded effective July 27, 1979, the date of Dean Hurst's most recent memorandum on the subject.
- c. Committee members received copies of memoranda exchanged between Senator Gray and me and relating to payment of nine-month faculty on an optional twelve-month basis and lump sum deduction in May of summer insurance premiums. Copies are attached. I invite your comments on them.
11. On August 22, Dean Hurst summoned a meeting in his office including Dr. Reel, Acting Dean of Undergraduate Studies, Ms. Beulah Cheney, University Publications Editor, Dean Hurst and me. The purpose of the meeting was to discuss ways in which the internal University communications process could be made more efficient and responsive to the University community's needs. During the meeting, Ms. Cheney presented a proposal which has been offered by the Department of University Relations. We are to meet again in September to discuss the matter again. In the meantime, Ms. Cheney has agreed to meet with the Senate Advisory Committee on August 30, 1979 at 1:00 p. m. in 108 Strode Tower to describe this proposal, answer questions and entertain other ideas on the subject. Others interested in attending are invited to do so. All suggestions would be welcomed. The Senate stands to benefit considerably from any proposal which results in our getting word of our activities more efficiently to faculty, staff and others.
12. Vice President Thompson, Dean Hurst, I and others will visit Hobcaw Barony October 22-23.

President's Report
August 28, 1979
Page Four

13. The Board of Trustees will meet on campus September 6-7.

Respectfully submitted,


H. W. Fleming

SCHEDULE

PRESIDENT'S LUNCHEONS WITH COLLEGE SENATORS

Tuesday, September 4, 1979
Saber Room - Clemson House

College of Ag Sciences

A. R. Mazur
S. G. Turnipseed
B. R. Smith
C. S. Thompson
R. G. Bursey
J. W. Dick
V. L. Quisenberry
H. M. Harris

Monday, September 10, 1979
Blue Room - Clemson House

College of Sciences

P. B. Burt
H. K. McDowell
J. E. Schindler
H. F. Senter
D. S. Snipes

Friday, September 21, 1979
Blue Room - Clemson House

College of Liberal Arts

H. W. Fleming
R. S. Lambert
E. M. Coulter
C. A. Grubb
R. B. Rollin

Friday, September 28, 1979
Blue Room - Clemson House

College of Engineering

D. D. Edie
J. J. Komo
W. Baron
J. N. Gowdy

Thursday, October 4, 1979
Blue Room - Clemson House

College of IM&TS

G. H. Worm
J. A. Kimbrell
R. W. Rouse

Friday, October 12, 1979
Blue Room - Clemson House

College of Education

W. E. West
G. W. Gray
L. H. Blanton

Tuesday, October 16, 1979
Saber Room - Clemson House

College of For & Rec Res

G. E. Howard
D. L. Ham

College of Architecture

J. L. Young
H. W. Webb

Tuesday, October 30, 1979
Saber Room - Clemson House

College of Nursing

M. A. Kelly
P. M. Kline

Library

M. A. Armistead

NOTE: All luncheons to be dutch treat, buffet line and have been scheduled from
12 noon - 1:30 p.m.

CLEMSON
UNIVERSITY

FACULTY SENATE

August 27, 1979

Dr. Victor Hurst, Vice President for Academic Affairs
and Dean of the University
209 Sikes Hall
Clemson University
Campus

Dear Dean Hurst:

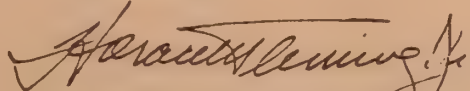
I have been asked by the Welfare Committee of the Faculty Senate to seek written clarification concerning the recently revised state and University grievance procedures as these relate to previously existing procedures specified on pages 34-39 of the Faculty Manual.

Specifically, we wish to know if the state and University grievance procedures contravene or in any provision or part supersede the procedures found in the Faculty Manual.

We would appreciate your responding to our question in writing so that it may be made a part of our record on the subject.

Thank you for your consideration and assistance.

Sincerely,



Horace W. Fleming, Jr.
For the Faculty Senate

College of Education

DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION



July 23, 1979

TO: Horace Fleming

FROM: Gordon Gray

SUBJECT: Payment of Academic Faculty and Deductions for Insurance

Several of our faculty have expressed concerns about the above topics. In the payment issue some faculty members have asked to be paid on a twelve month basis and have been told this is not possible. The reason given was that it was a problem for the administrative office concerned.

The problem with the payment of insurance premiums arises from objections to paying for the summer costs in one lump sum. Could this not be deducted on a nine month basis?

Would you please investigate these problems and take whatever action you think appropriate?

CLEMSON
UNIVERSITY

FACULTY SENATE

July 26, 1979

Memorandum

TO: Gordon Gray

FROM: H. W. Fleming

RE: Inquiry Concerning Payment of Academic Faculty and Deductions for Insurance

I have made an inquiry with Mr. Ron Herrin about the two matters you raised in your July 23 memorandum to me. I want to relate to you what he told me; then you might address further questions to him.

1. Because state appropriations--including funds for payment of faculty--are required to be expended on a fiscal year basis, payments of nine-month faculty cannot be made after July 1 of each fiscal year. This means that any money deducted during the year for summer payment would have to be disbursed before that date. In other words, there could be no further, equal portion checks drafted in July or August which would have the effect simply of carrying the payroll on for a full 26 installments, as in the case with staff on 12-month contracts. (Of course, as you know, the latter's pay theoretically is changed at the beginning of every fiscal year.) According to Mr. Herrin, the withholding of a portion of each paycheck and its deposit in the Credit Union has several advantages over any other system that the University can devise under these circumstances:

- a. the money is deposited in an interest-bearing account at 5.75 percent; and
- b. it is available whenever the faculty member wants it.

In the past, when the University was withholding for the summer months, state law did not allow the money to be deposited by the University in any kind of interest-bearing account, consequently the faculty members, in Mr. Herrin's opinion, lost on the deal. With deduction for deposit in the Credit Union, the University labors under no such legal restrictions.

As you may know, it costs one dollar to join the Credit Union, plus an additional five dollars as an initial deposit. There are no other charges involved.

Memorandum to: Gordon Gray
July 26, 1979
Page Two

For those who wish to take this route, you should inform them that Credit Union deductions would be fixed by the employee and would be deducted 16 times during the nine-month academic year: once each month, with the exceptions of the two months when we receive three paychecks because of the way pay dates fall.

2. Mr. Herrin agrees that it would be possible to do what you propose in regard to deductions for insurance premiums for the summer months. But he points out certain problems this would involve. To begin with, if these premiums were distributed over the remaining nine months of the academic year, it would amount to requiring faculty to pay in advance for protection that they do not yet have. His feeling is that no one should be required to pay before the benefit is actually received. Secondly, he points out a number of administrative problems which might arise as a result of faculty leaving the University for other employment during the year or at the end of the academic year--necessitating refunds and the possibility of errors and delay in the process.

I hope this explanation is satisfactory for the moment. My own feeling is that the present system of Credit Union deduction for purposes of equalizing pay over 12 months is a good one and probably the best that can be devised under the circumstances. I think it would be good to come up with an alternative to the lump sum deduction of summer insurance premiums, but I agree with Mr. Herrin that there is something odious about payment in advance of these premiums over the earlier nine-month period.

If you have proposals on either item, I would appreciate seeing them. If you need other information or assistance from me, please let me know.

XC: Ron Herrin

Calendar of Campus Events

- 15 -- Seminar: "How Microorganisms Cope with Reduced Water Activity" by Prof. Lloyd D. Witter, Department of Food Science, University of Illinois. Sponsored by Fine Arts Lecture Fund and Departments of Food Science and Microbiology, Room 1, Kinard, 4 p.m. Open to the public, no admission charge.
- 15 -- Lecture: "The Future of Nursing Practice" by Martha E. Rogers, Professor of Nursing, New York University. Sponsored by University Fine Arts Committee and presented by the College of Nursing Fine Arts Committee. Daniel Auditorium, 2-4 p.m. with a reception following in the College of Nursing Building. Open to the public, no admission charge.
- 15-17 -- Movie: "Norma Rae." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 15-21 -- Videotape: "Jackson Browne." Sponsored by University Union, loggia, shown on request, no charge.
- 15-20 -- Art Exhibition: "The Chronicle." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 15-29 -- Art Exhibition: "America's Architectural Heritage." More than 200 photographs depicting outstanding examples of architecture in America. Also on exhibit, recent residential and commercial projects by a former Clemson student and recent watercolors of Italian seacoast and landscapes by the dean of the College of Architecture. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 15-16 -- Shortcourse: "Supervisory and Foremanship Skills." Sponsored by Professional Development Office, call 656-2200 for more information.
- 7-19 -- Conference: "16th Annual Southeastern Conference of Counseling Center Personnel." Hosted by Counseling Center, Holiday Inn. Call 656-2451 for more information.
- 17 -- Shortcourse: "Professional Development for Secretaries." Sponsored by Professional Development Office, call 656-2200 for more information.
- 17 -- Educational Film Series: "Of Course You Can" and "Three Times a Day." Sponsored by University Union, Edgar's, noon - 1 p.m. Brown bag lunch, bar will be open. University I.D. and proof of age required.
- 18 -- Soccer: Furman University, here, 3:30 p.m.
- 18 -- Performing Artist Series: "Pocket Mime Theatre." Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, \$1.50 admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 18-20 -- Movie: "Oh God." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 19-20 -- Coffeehouse: Connie Huber. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation requested.
- 20 -- Block and Bridle Horse Show. Horse arena off Hwy. 76 between Clemson and Tri County Tec, 9 a.m. - 4 p.m. Open to the public, admission will be charged.
- 20 -- Conference: "Social Psychology: Trends During the 1970s." Sponsored by Southeastern Social Psychologists and Psychology Department, Holiday Inn. Call 656-3210 for more information.
- 21 -- Fall Color Photography Trip. Sponsored by University Union, details and sign up at Union Information Desk.
- 21 -- Free Flick: "Bite the Bullet." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 21-28 -- Art Exhibition: "Mountain Foliage." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 22-28 -- Videotape: "Vanishing Corpse." Sponsored by University Union, loggia, shown on request, no charge.
- 22-24 -- Movie: "Wanda Nevada." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 22-23 -- Shortcourse: "Letter and Report Writing Workshop." Sponsored by Professional Development Office, call 656-2200 for more information.
- 23 -- Spanish Play: Gazpacho Andaluz, a comedy on marriage by Carlos Arniches. Sponsored by Languages Department, presented by Spanish students, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 24 -- Speakers Bureau Presentation: Earl Butz, Secretary of Agriculture under Presidents Nixon and Ford. Brackett Auditorium, 7 p.m. with a reception immediately following. Open to the public, no admission charge.
- 24 -- Concert: Dizzy Gillespie, jazz trumpet virtuoso. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season tickets or individual tickets on sale at gate.
- 24 -- Soccer: Erskine College, here, 3 p.m.
- 24 -- Backgammon Tournament. Sponsored by University Union, Edgar's, 8 p.m.
- 24-26 -- Shortcourse: "Resident First Aid Instructors." Sponsored by Professional Development Office, call 656-2200 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 25 -- Ping Pong Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 25-27 -- Movie: "Omen." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 26-27 -- Annual meeting of the Trustees of the J. E. Serrine Textile Foundation, Inc., College of Industrial Management and Textile Science.
- 26-27 -- Edgar's: Jamie Defrates. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 26-27 -- Coffeehouse: John Bartus. Sponsored by University Union, The Gutter Coffeehouse, 9 p.m. University I.D. required, 50¢ donation requested.
- 26 -- Beer Garden. Sponsored by University Union, East Bank, 4:30 - 6:30 p.m. University I.D. and proof of age required.
- 27 -- Football: N.C. State, here, 1 p.m.
- 27 -- Block and Bridle Pork Bar-B-Que. Across from Jervey Athletic Center, serving from 10:30 a.m. until 12:45 p.m.
- 28 -- Horseback Riding. Sponsored by University Union, details and sign up at Union Information Desk.
- 28 -- Free Flick: "Legend of Hell House." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 28 -- Soccer: Jacksonville University, here, 2 p.m.
- 29-30 -- Shortcourse: "How to Delegate Effectively." Sponsored by Professional Development Office, call 656-2200 for more information.
- 29 -- Spanish Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 29-11/4 -- Vidoetape: "Vanishing Corpse." Sponsored by University Union, loggia, shown on request, no charge.
- 29 -- Foosball Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 29-11/3 -- Art Exhibition: Photo Exhibit. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 29-31 -- Movie: "Damien--Omen II." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 30 -- Concert: Gilbert and Sullivan Patter Songs. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to

CALENDAR OF CAMPUS EVENTS (Cont.)

the public, no admission charge.

- 31 -- Shortcourse: "Communication and Interviewing Skills for Supervisors." Sponsored by Professional Development Office, call 656-2200 for more information.
- 31 -- ESP Demonstration: Hypnotist Gil Eagles. Sponsored by University Union, Palmetto Room of Union, 8 p.m. Open to the public, ticket price to be announced. Call 656-2461 for more information.
- 31 -- Pumpkin Carving Contest. Sponsored by University Union, loggia, noon - 3 p.m. Open to students only, prizes will be awarded.
- 31 -- Movies: "It's Alive" and "Tales from the Crypt." Sponsored by University Union, Edgar's, 10 p.m. University I.D. and proof of age required, no admission charge.
- 31 -- Educational Film Series: "What It Takes to Speculate" and "Always Tip the Fat Lady." Sponsored by University Union, Edgar's, noon - 1 p.m. Brown bag lunch, bar will be open. University I.D. and proof of age required.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 6

November 1, 1979



CLEMSON
UNIVERSITY

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NOV 1 1979



Philip Morris Representative Larry Sykes, left, presents a check for \$5,000 to State 4-H Leader David Pyle. The funds will be used in support of 4-H volunteer leadership development in the state.

4-H RECEIVES \$5,000

The Philip Morris Company has presented a \$5,000 contribution to the 4-H youth program conducted by the Clemson University Cooperative Extension Service. State 4-H Leader David Pyle said the funds will be used to develop the 4-H volunteer leadership program throughout the state.

"These volunteers provide a valuable service in helping us develop leadership and project-related skills," Pyle said. "This special funding can help a great deal with this."

A statement accompanying the gift from the firm said: "As a basic processor of agricultural commodities--tobacco, hops, grain and citrus--Philip Morris gratefully acknowledges the impact 4-H has on the nation's youth. We are confident that in future years our use of agricultural commodities as our basic raw material will continue and that 4-H will also continue to develop the youth of America."

PLANS FOR PRESIDENTIAL INAUGURATION BEGIN

A committee appointed by the Board of Trustees has developed tentative plans for the inauguration of President Bill L. Atchley and related events next April.

Committee chairman Jerome V. Reel, acting dean of undergraduate studies, said the three-day schedule will include an inauguration symposium which will bring four speakers of national stature to campus. The symposium will be entitled "Energy: The Future" and will focus on the best research and humanistic ideas on energy.

A fifth speaker of national prominence, who will draw together the energy themes and challenge the University to deal with them, will be invited to present the inaugural address.

So far, the schedule shapes up like this:

April 16 and 17: Inauguration Symposium

April 17: Evening Concert

April 18: Inauguration, 2 p.m. at Littlejohn Coliseum
Outdoor reception immediately following

Invitations to the inaugural ceremony and the reception will be extended to all students, faculty, staff and alumni of the University. State officials, members of Congress, representatives of other colleges and universities and learned societies, as well as special friends of the University will also be invited.

Said Reel: "Our committee is doing its work with three things in mind. First, of course, we want to have an inaugural ceremony that's appropriate to the occasion. Second, we want to call attention to the role Clemson University can play in solving one of the nation's major

problems. Finally, we want all Clemson people to have the opportunity to attend the inauguration and participate in the activities."

Reel said further information about the inauguration and related events will be forthcoming as the committee continues to meet.

Other committee members are T. Kenneth Cribb of Spartanburg, chairman of the educational committee of the Board of Trustees; Victor Hurst, vice president for academic affairs; C. Stassen Thompson, vice president of the Faculty Senate; Billy G. Rogers of Dillon, president of the Clemson Alumni Association; John B. Holliman, a representative of Student Government; David W. Kraus, a representative of the Graduate Student Association; and Clayton V. Aucoin, marshal of the University.

BOARD OF VISITORS TO TOUR CAMPUS

President Bill L. Atchley has invited a distinguished group of 13 persons to serve as members of the University's 1979 Board of Visitors.

The Board will be on campus Nov. 4-6 to be briefed on Clemson's teaching, research and public service programs. Members will tour campus facilities and meet and talk with students, faculty and the administration.

Members are: Mrs. Edwin Boyle Jr., Isle of Palms; W. B. Camp, Bakersfield, Calif., Rep. C. D. Chamblee, Anderson; Arthur J. H. Clement Jr., Charleston; L. J. Hendrix Jr., Spartanburg; Mrs. Lynn T. Hilley, North Augusta; A. H. Lachicotte Jr., Pawleys Island.

Also, Calhoun Lemon, Barnwell; Rep. Douglas E. MeTeer Jr., Early Branch; James H. Quackenbush Jr., Columbia; Dr. John W. Sample Jr., Charleston; Rep. Eugene C. Stoddard, Gray Court; and B. Frank Williamson, Darlington.

Clemson's Board of Trustees nominates members to the Board of Visitors. Each

year the University invites a different group of 13 persons to serve.

CONSTRUCTION BEGINS ON NEW DORMITORY

Construction of a new 512-bed dormitory has been awarded to the Ballenger Corporation of Greenville.

Work has already begun on the \$8 million project, which consists of a complex of low-rise, apartment-style units located just east of the president's home and South Palmetto Boulevard. The buildings are scheduled to be ready for occupancy by fall semester 1981.

The Special Advisory Committee on Names has recommended that the complex be named the Patrick Noble Calhoun Courts and will submit the name to the Board of Trustees for approval. This recommendation was made in recognition of the great contributions Mr. Calhoun made to the University as a student, a distinguished alumnus, and a Life Member of the Board.

CHILDREN'S LITERATURE TOPIC OF SYMPOSIUM

Joyce Rockwood, a noted children's author and anthropologist specializing in Cherokee Indian cultural history, will be the featured speaker of the annual Children's Literature Symposium, Saturday, November 17.

Sponsored by the English Department and the College of Liberal Arts, the symposium will be held in Daniel Auditorium from 8:30 a.m. until 1 p.m.

Other speakers include Ann Sullivan, a specialist in storytelling; Editha Mills, who will discuss using children's books in teaching composition; and Gail Campbell, an Anderson librarian. English Professor Skip Eisiminger will deliver the after-dinner speech in the Purple and Gold Room of the Clemson House at 1 p.m.

A registration fee of \$5 will be charged, and the luncheon fee is \$4.50. Anyone interested in attending should preregister by Nov. 9 by sending a check to Malcolm Usrey at the English Department.

UNION OFFICIALLY NAMED

The organization which has been called the Student Union, Clemson Student Union, Clemson University Student Union, and University Union has now been officially named. It will be called the Clemson University Union, as adopted by its Governing Board.

The Clemson University Union seeks to serve all the Clemson University family, and invites faculty, staff and students to participate in its programs and activities.

WORKSHOP TO FOCUS ON INTERPERSONAL SKILLS

All University staff members are invited to attend a Counseling Center workshop on "Effective Interpersonal Skills" to be offered from 8:30 a.m. to noon on two consecutive Wednesdays, Nov. 14 and 21.

The workshop is designed to assist participants to optimize clear, accurate and open self-expression as well as to cope creatively with interpersonal conflicts. Topics to be covered include: 1) effective communication with co-workers; 2) resolving conflicts with students, co-workers and supervisors; 3) assertive responses to complaints, criticism and unreasonable requests; and 4) the appropriate expression of feelings, opinions and beliefs.

Interested persons are asked to call the Counseling Center at 2451 to sign up. This workshop will be limited to 15 participants.

The Counseling Center staff is also willing to present this workshop in various departmental office areas for extant groups of employees at convenient times and dates. The experience would be tailored to meet the perceived needs and unique circumstances of each employee group, with optimal group size ranging from 8 to 15 employees. If you are interested in having a workshop conducted in your area, call Mike Vinson at 2451.

NEW SCHEDULE DEvised FOR CALENDAR OF EVENTS

Beginning with the Dec. 1 issue, campus events listed in the calendar at the end of this newsletter will be publicized for the upcoming two-week period instead of the current two-week period as is now done.

Under the present system, the newsletter which is issued on the first of the month contains calendar items for the first through the fourteenth of that month. Under the new system, the first-of-the-month newsletter will contain items for the fifteenth through the end of the month. The deadline for submitting these items to the Office of University Relations, 103 Fike Recreation Center, will be the twentieth of the preceding month.

The newsletter issued on the fifteenth will contain items for the first through the fourteenth of the next month. The deadline for submitting items will be the fifth of the month the newsletter is issued.

This issue and the next will contain calendar items for a four-week period as we adjust to the new schedule. Call 656-2467 if you have any questions.

ARCHITECTURAL STUDIES

Johannes Holschneider (Prof) had a paper, "Wie sieht die Architektur von Morgen aus - Gesprach mit Moshe Safdie," published in Architektur und Wohnen, May 1979, pp. 163-169. (This was a personal interview with Moshe Safdie in Montreal/Jerusalem. Mr. Safdie is currently chairman of the Urban Design Program at Harvard University, Cambridge, MA.

Gayland B. Witherspoon (Prof and Hd) served on the Air Force Design Awards Jury with jurors from the National American Institute of Architects in Washington, DC, Sept. 20 and 21. This Air Force Designs Awards Jury was sponsored by the U.S. Air Force.

ARCHITECTURE--OFFICE OF THE DEAN

James E. Dalton (Asst to the Dean and Prof of Arch Studies) participated in a National Institute of Building Sciences meeting in Washington, DC, Oct. 1 and 2. He advised the steering committee on reorganizing task forces dealing with building insulation, research, education and government legislation.

CHEMISTRY AND GEOLOGY

H. G. Spencer (Prof, Chem) and J. A. Barrie (Imperial College) have published a paper, "Transient Sorption by Two-Component Laminate Slabs in a Semi-infinite Bath," in J. Appl. Polym. Sci., 24, 1391 (1979).

CIVIL ENGINEERING

Ben Sill and John Fisher (Assoc Profs) have received a \$32,000 contract from the state of South Carolina, Department of Parks, Recreation and Tourism, to analyze the erosion problems at Hunting Island. This one year study will use a physical hydraulic model to simulate the wave and tidal forces at this shoreline.

Subhash C. Anand (Prof) has been notified by the Office of the International Programs, NSF, of the approval of an International Travel Grant under which he will visit the University of Eindhoven in The Netherlands and present a paper at an international conference in India.

Russell H. Brown (Assoc Prof) attended the 5th International Brick Masonry Conference in Washington, DC, Oct. 8-10, where he chaired a technical session entitled "Properties and Behavior of Materials." He also presented a paper, "Lateral Load Distribution in Cavity Walls," co-authored by Rudy Elling (Assoc Prof).

ELEMENTARY AND SECONDARY EDUCATION

William W. Pennscott (Prof) has been chosen president-elect for the 1979-80 academic year by the members of the South Carolina Association for Counselor Education and Supervision.

ENGINEERING TECHNOLOGY

David V. Hutton (Assoc Prof), chairman of the Engineering Technology Division of the ASEE Southeastern Section, attended the planning session in Atlanta Sept. 18 for 1980 ASEE Southeastern Section Annual Conference to be held in Orlando, FL, March 30-April 2.

D. L. Ryan (Assoc Prof) has recently been appointed series editor for Marcel-Dekker, Inc. The new series, Computer-Aided Design, will contain several textbooks including Prof. Ryan's proposed text based on a Clemson undergraduate course of the same title.

James A. Chisman (Prof and Acting Hd) delivered a paper, "Utility Bill Estimating," to the 15th Annual Meeting of the Southeastern Division of The Institute of Management Services Oct. 4 at Myrtle Beach.

C. R. Lindenmeyer (Assoc Prof), technical advisor to the S. C. State Reorganization Commission, gave a presentation, "Stop Watch Work Measurement Procedure," Sept. 28 to the task force at the S. C. School for the Deaf and the Blind in Spartanburg.

Prof. Lindenmeyer received additional grant support in the amount of \$5141 to support extension of his CSCE project, "In-Service Training Program Development and Implementation for Hospital Cost Containment," through Dec. 31.

ENGLISH

Donald G. Bzdyl (Asst Prof) read "Juliana: Cynewulf's Dispeller of Delusion" at the Conference on Patristic, Medieval, and Renaissance Studies at Villanova University Sept. 30.

George Donahue (Instr) published five pieces of short fiction in The New Infinity Review, 4 (Fall 1979), 21-28.

Sterling Eisiminger (Asst Prof) published "Joketowns in South Carolina" in American Speech, 54, No. 2 (1979), 145-48.

Roger Rollin (Lemon Prof) published "Deus in Machina: Popular Culture's Myth of the Machine" in the Journal of American Culture, 2 (Summer, 1979), 297-308.

E. P. Willey (Assoc Prof) published "Uncut Gray," "Morpheus in Ivory" and "Oracular" (three poems) in Re: Artes Liberales, 5 (Spring 1979), 38-40.

The South Carolina Review, edited by Richard J. Calhoun (Alumni Prof) and Robert Hill (Assoc Prof), was included on the New York Quarterly's list of "the most outstanding college, university, literary and 'little' magazines in this country," along with The Hudson Review, The Paris Review, Partisan Review, The Georgia Review, Sewanee Review, and Virginia Quarterly Review.

ENVIRONMENTAL SYSTEMS ENGINEERING

Thomas J. Overcamp (Assoc Prof) presented a paper, "Health Effects of Air Pollution," at the Fall Meeting of the Carolinas Air Pollution Control Association held at Myrtle Beach, Oct. 24-26.

4-H EXTENSION

Colorado Springs, CO, will be the setting for two national Extension meetings at which Cecelia A. Winiecki (Asst Prof, Home Ec and State 4-H & Youth Development Coor) will be presenting a seminar, "4-H Community Development: Involvement Unlimited." On Nov. 1-3, the National "Designing 4-H with People Workshop" will be held, followed by the National Association of Extension 4-H Agents Conference, Nov. 4-9.

Mary Stone (Asst Prof, Home Ec and State 4-H & Youth Development Coor) chaired a

four-day 4-H Volunteer Leader Forum for the southern region. Four hundred and fifty people from 15 states attended the forum held at Rock Eagle 4-H Center, Eatonton, GA, Oct. 8-12. The purpose of the forum was for 4-H leaders to learn new techniques, information and resources to enhance the quality of the local 4-H program.

FOOD SCIENCE

M. G. Johnson (Assoc Prof) was co-author with J. H. Mitchell Jr. (Emeritus) and E. R. Bucker Jr. (former Grad Stu) of a recently published paper, "Lactic Fermentation of Peanut Milk," J. Food Science, 44: 1534-1538 (1979).

FORESTRY

S. M. Jones (Res For), J. E. Fairey (Assoc Prof, Botany), D. A. Rayner (S. C. Wildlife Dept), R. C. Clark (Erskine Coll), R. D. Porcher (The Citadel), C. L. Rodgers (Furman Univ), W. T. Batson (USC), J. N. Pinson (USC, Coastal Carolina Coll), and R. W. Powell (Converse Coll), serving on the S. C. Advisory Committee on Endangered, Threatened, and Rare Plants, co-authored "Native Vascular Plants Endangered, Threatened, or Otherwise in Jeopardy in South Carolina," published as S. C. Museum Commission Bulletin No. 4.

L. E. Nix (Assoc Prof) presented a one-day program Oct. 1 on "Morphology and Anatomy in Relation to Tree Growth and Development" as part of the U. S. Forest Service Silvicultural Certification Program in Seattle, WA.

The Science and Education Administration, U. S. Dept. of Agriculture has granted \$50,028 for the investigation of "Predictive Models for Ranking Stand Susceptibility to Southern Pine Beetle Infestation in the Southern Appalachians." Research is to be conducted under the supervision of R. L. Hedden (Asst Prof).

HISTORY

Laura Becker (Asst Prof) and Charlotte Holt (WEPR) have assumed responsibility for a series of radio programs in women's history to be produced at Clemson. The series, "Women - Themselves," will present women from the past in their own words taken from autobiographies, memoirs, diaries, letters and similar material. The series, which will be aired next year, is funded by a \$28,000 grant for the South Carolina Committee for the Humanities.

John G. Hoffman (Asst Prof) has published "The Arminian and the Iconoclast" in the September 1979 issue of the Historical Magazine of the Protestant Episcopal Church.

HISTORY AND VISUAL STUDIES

John T. Acorn (Prof and Hd) presented an exhibition of an exploration of variations on a theme entitled "The Profile of a Woman's Head." Twenty works were created in 1978-79. These works were exhibited at the Anderson Art Center Sept. 8-28.

Sam Wang (Assoc Prof) was one of five instructors at a two-week printmaking workshop at the University of Notre Dame in July 1979.

Mr. Wang had the following one-man shows: The Light Factory Gallery, Charlotte, July, (also lectured at Gallery on his work); Francis Marion College Art Gallery, Florence, SC, August; Lander College Art Gallery, Greenwood, SC, August; Rhode Island School of Design Photography Gallery, October; and Virginia Intermont College, September (also lectured at the College on September 28).

Professor Wang participated in the following group show: Clemson Faculty Show, Spartanburg Art Center, Spartanburg, SC, September; "Five Printmakers," South Bend Art Center, Century Center, South Bend, IN, July; and "Hot Shots: Twenty-Five Photographers," Southeast Center for Contemporary Art, Winston-

Salem, July.

Ireland Regnier (Prof) taught and lectured during a three-week session in painting at the Penland School of Arts and Crafts in July, Penland, NC. Prof. Regnier also participated in the Clemson Faculty Art Exhibit in Spartanburg in September.

Mike Vatalaro (Asst Prof) received one of seven grants awarded jointly by the Southeast Center for Contemporary Art and the National Endowment for the Arts. Awarded for his current work in sculpture, the grant is designated to assist the artists in continuing his creative work. Over 1,400 artists from 11 southeastern states were reviewed by a jury of national and regional jurors. Along with the \$2000 stipend, the award also includes a major group show titled "Southeast Seven III," originating in April 1980 at the Southeast Center for Contemporary Art in Winston-Salem, NC, then touring for a year.

INDUSTRIAL EDUCATION

Verner Burkett (Assoc Prof) and Gerald Lovedahl (Asst Prof) conducted an in-service workshop for Richland School District I industrial arts and prevocational instructors on Sept. 28. Prof. Burkett made a presentation on "Organizing Instruction in Electronics and Power Mechanics." Prof. Lovedahl made a presentation on "Organizing Instruction in Drafting and Graphic Arts."

William E. West (Prof) was re-elected secretary/treasurer of the Southeastern Industrial Arts Conference at its annual meeting held at Langley, VA, Oct. 4-6.

INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) has received a three-year grant, "Implant Fixation in Bone by Electrical Stimulation," from the National Institutes of Health. The total direct costs for the three-year period will be \$98,690; the first year's direct costs, \$32,256. The first year grant period is from Sept. 1, 1979, to Aug. 31, 1980. Co-investigators are

A. F. von Recum (Prof) and G. H. Kenner (Assoc Prof).

LANGUAGES

Leonard T. Perry (Asst Prof, Spanish and Italian) was elected vice-president of the South Carolina Chapter of The American Association of Spanish and Portuguese for 1979-80 at Winthrop College, Rock Hill, at their fall meeting Oct. 6.

LIVESTOCK-POULTRY HEALTH

Thomas H. Eleazer (D.V.M.) presented a paper, "Control of Game Bird Diseases," at the Annual Convention of the American Pheasant and Waterfowl Society in Athens, GA, Sept. 21.

MATHEMATICAL SCIENCES

The 1979 Annual Convention of the American Mathematical Association of Two-Year Colleges was held in San Diego, CA, Oct. 17-20. Thomas A. Carnevale (Vstg Prof) was program chairman, and C. V. Aucoin (Prof) and S. M. Lukawecki (Prof) addressed the convention. Prof. Aucoin's presentation was entitled, "The New M. S. Degree in the Mathematical Sciences and Its Relevance to Undergraduate Programs." Prof. Lukawecki's subject was "Mathematical Science Major: What? Where? Who? Why?"

John Kenelly (Prof) was one of the invited resource participants at a College Board sponsored conference in Sherman, TX, Oct. 5 and 6. The conference, "Academic Excellence: A Shared Goal for Schools and Colleges," was held on the Austin College Campus with over 250 participants from Arkansas, Oklahoma and Texas. During the conference, Prof. Kenelly was responsible for the mathematics area, and this included two hour-long presentations.

The College Board has produced, with the cooperation of the South Carolina Programs for the Gifted, a 13-minute film

entitled, "Advanced Placement--A Program for Academic Excellence." The film will receive widespread national distribution, and it features the South Carolina Advanced Placement Program. Several Clemson University students and Prof. Kenelly are featured in the film.

Prof. Lukawecki has been appointed by the Mathematical Association of America as the regional contest chairperson for the state of South Carolina. He will be responsible for administering the annual high school mathematics examination. Last year, approximately 4,500 students in South Carolina alone took this test. The students making the best scores in the United States participate in the International Mathematical Olympiad. Sponsors of the test are Mathematical Association of America, the Society of Actuaries, Mu Alpha Theta, National Council of Teachers of Mathematics, and the Casualty Actuarial Society.

MUSIC

Lillian Harder (Instr), pianist, and Martha Hamilton (Instr), flutist, presented two recitals this month. The first was on Oct. 11, sponsored by the Department of Music at Newberry College. The second was a public recital held at Magill Hall in Greenville Oct. 14.

PHYSICS AND ASTRONOMY

Beverly B. Bookmyer (Prof) and Danny R. Faulkner (Grad Stu) have been granted use of the facilities at Cerro Tololo InterAmerican Observatory, La Serena, Chile, South America from Dec. 12-27 to observe several selected eclipsing binary systems photoelectrically in the B and V effective wavelength regions in order to investigate the physical interactions occurring between close stars. R. R. Leporis, VW Canis Majoris, RZ Columbae, and EZ Hydrae will be observed.

POLITICAL SCIENCE

Martin Slann (Assoc Prof) presented a paper, "Definance in Foreign Policy: The Israeli Intransigence," at the 1979 annual meeting of the International Studies Association-South, Oct. 4-6 in Athens, GA.

PROFESSIONAL DEVELOPMENT

Carl W. Gooding (Assoc Prof, IM) is chairperson for a two-day seminar, "Inventory Strategies," to be held at Clemson Nov. 15-16.

Robert W. Rouse (Assoc Prof, Acct and Fin) is chairperson for a seminar, "Managing in an Inflationary and Uncertain Environment," to be held Nov. 29 at Clemson.

ZOOLOGY

Sidney A. Gauthreaux Jr. (Prof) has recently been reappointed to the Heritage Trust Advisory Board by Governor Riley.

Edward E. Ruppert (Asst Prof) has been invited to teach the summer (1980) invertebrate zoology course at the Friday Harbor Marine Laboratories of the University of Washington.

Recent publications by faculty members include:

--Todd, R. L., R. D. Meyer (Univ of Georgia) and J. B. Waide (Asst Prof), "Nitrogen Fixation in a Southeastern U.S. Deciduous Forest," Ecological Bulletin (Stockholm) 26: 172-177.

--Henderson, G. S. (Univ of Missouri), W. T. Swank (US Forest Service), J. B. Waide (Asst Prof) and C. C. Grier (Univ of Washington), 1978, "Nutrient Budgets of Appalachian and Cascade Region Watersheds: A Comparison," For. Sci., 24: 385-397.

--Huff, D. D. (Oak Ridge National Lab), W. T. Swank (US Forest Service), C. A. Troendle (US Forest Service), G. S.

Henderson (Univ of Missouri), J. B. Waide (Asst Prof) and T. Haynes (US Forest Service), 1979, "Element Cycles and Water Budget Analyses Applied to Forest Management in the Eastern United States," Soc. Amer. For. Proc. 1978: 77-89.

Recently funded grant proposals include:

--"Effects of Nutrient Circulation in Forested Watershed Ecosystems at Coweeta," National Science Foundation (subcontract via Univ. of Georgia), June 1979-May 1981, Jack B. Waide (Asst Prof) co-principal investigator with colleagues in the U. S. Forest Service, at Georgia, and at VPI.

--"Ecosystems Effects of Whole Tree Harvesting," Department of Energy (subcontract via Oak Ridge National Laboratory), July 1979-September 1979, Jack B. Waide (Asst Prof) and David H. Van Lear (Prof, For) co-principal investigators.

Jack B. Waide (Asst Prof) was an invited participant in the workshop on "Ecosystem Effect of Whole Tree Harvesting," Oak Ridge National Laboratory, Oak Ridge, TN, March 11-13, 1979. This workshop was sponsored by the U. S. Department of Energy.

Prof. Waide presented an invited paper, "Interpretation of Nutrient Cycling Research in a Management Context: Evaluating Potential Effects of Alternative Management Strategies on Site Productivity," at the 40th Annual Biology Colloquium (Forests: Fresh Perspectives from Ecosystem Analysis) at Oregon State University, Corvallis, OR, April 27-28, 1979. The paper was co-authored by W. T. Swank (US Forest Service).

MINUTES OF THE UNIVERSITY LIBRARY COMMITTEE MEETING, SEPTEMBER 10, 1979

Present: Ann W. Baxter, Becky F. Campbell, Sushma S. Ganguly, John V. Hamby, Benjamin M. Hawkins, Jack C. McCormac, Syed S. H. Rizvi, Margit M. Sinka, Evelyn C. Voelker, George H. Worm, Mabel H. Wynn, J. W. Gordon Gourlay, director of the Library.

Visitor: Richard W. Meyer, associate director.

John V. Hamby was elected chairperson; J. W. Gordon Gourlay, secretary.

Mr. Gourlay introduced Mr. Richard W. Meyer, the new associate director who began his duties August 1.

Time of Meeting of Committee: By unanimous decision the time of the meeting was set at 2:30 p.m. the second Monday of the month in which meetings take place.

Ann W. Baxter, chairperson 1978-79, reviewed highlights of the work of the Committee during the past year.

Mr. Gourlay spoke of the responsibility of the Committee as a Committee that advises the director of the library on the determination of the needs of the library, the formation of library policies, and on such matters as may be referred to it by the director of the library. Mr. Gourlay noted that all the major policies under which the library operates have been formulated by the Library Committee and recommended to the Administration.

The members of the Committee represent a broad spectrum of faculty and student interest and are in a position to bring to the meeting questions or recommendations which need to be discussed. In turn the members are able to communicate library information to their colleagues.

Mr. Gourlay gave an overall view of the progress of the library in 1978-79 which included the following statistics as of June 30, 1979.

Number of Volumes	762,408
Reels of Microfilm	18,005
Units of Microfiche	343,746
Microcards	31,504

To supplement its collection during the year, a total of 2,026 items were borrowed from other libraries and 2,776 loaned to other libraries. Since for many years Clemson borrowed more items than it loaned, these figures reflect the growing strength of the collections and library service beyond the Clemson campus.

A count is made of library users as they leave the building. In 1978-79 the number totalled 491,600.

The extension of library hours from 11:00 p.m. to 1:00 a.m. Sunday through Thursday from November through the spring semester has been greatly appreciated by students and will be continued for the fall and spring semesters 1979-80. Although service from the library staff is not available after 11:00 p.m., the students have access to the collections of books, journals and documents for 106 hours each week.

The application of computer technology to libraries has affected nearly every aspect of librarianship. In 1968 Clemson installed an automated circulation system. This innovation was followed by direct-line access to a data base in Ohio where the catalog records of the Library of Congress as well as many other libraries in the United States and Canada were available to Clemson as well as the catalog cards of these libraries. Then came direct on-line access to bibliographical information, a system in which about 100 indexes and abstracts are stored in a huge data base in California--the Lockheed Dialog Information Retrieval System. The time of faculty and research personnel in searching bibliographies was reduced from days of manual searching to minutes through use of this computer. Most recently interlibrary loan requests have been speeded up through use of computer applications.

In the cataloging of publications the adaption of cataloging rules to the computer has occupied librarians throughout the world. Within a relatively few years the card catalog as we know it today will be replaced by a data base with access to the wealth of a library through CRT terminals in the library and elsewhere on campus.

All has meant constant study by members of the library staff, attendance at workshops where the new technology is explained and demonstrated, study and consideration of new innovations--all with a view to faster and more complete library service.

Library Budget

In fiscal year 1978-79 a total of \$855,940 was spent from all sources for books, periodicals and binding. In 1979-80 this will be increased by \$100,000.

Retirement of Mrs. Margy H. Nowack

Mrs. Margy H. Nowack, librarian in charge of acquisitions/monographs, retired in August because of medical necessity. Mrs. Nowack began the responsibilities of head of the Acquisitions Department in 1948 and, except for the years 1955 to 1961, has carried that responsibility ever since. For many years Mrs. Nowack served also as reference librarian several hours each week. Her contribution to Clemson University Library and hence to the University has been great.

Tour of the Lower Level and Basement

Following the meeting members of the Committee who had not seen the new construction were taken on a tour of the lower level and the basement.

Time of Next Meeting

Monday, October 8, at 2:30 p.m., classroom, ground floor of the library.

J. W. Gordon Gourlay, Secretary
University Library Committee

MINUTES OF THE UNIVERSITY AUDIO-VISUAL COMMITTEE MEETING, APRIL 19, 1979

Present: W. A. Shain, T. E. Burke, D. Y. Brannock, R. C. Davenport, J. A. Stockham, M. R. Weber, B. R. Smith, W. H. Owens, T. F. Collins.

Chairman Owens called the meeting to order at 1:25 p.m. The minutes of the March 1, 1979, meeting were presented and, with minor corrections, approved. Owens then asked for comments on the Communications Carnival.

T. E. Burke suggested that the Carnival

was not the success that it might have been and said insufficient and/or ineffective publicity may have been partially responsible. He also suggested that the event might be more successful if it were held as an adjunct to some other event. Another possibility was to have a shorter event for one area of concentration--such as engineering.

Bill Shain presented a final report of Carnival activities, a copy of which is attached. He commented that the event could be held in the Plant and Animal Science Building, possibly in conjunction with the Computer Center.

Chairman Owens suggested that perhaps the event should be held in alternate years--to alternate with the committee-sponsored evaluation of the Communications Center. He added that he had missed having the demonstrations, overhead, etc., that had been a part of past equipment displays.

Chairman Owens asked for a report of the nominations subcommittee. J. A. Stockham reported that the committee recommended that T. F. Collins be nominated for the chairmanship and D. Y. Brannock be nominated as secretary for the 1979-80 academic year. There being no further nominations from the floor, Collins was elected as chairman and Brannock was elected as secretary.

Chairman Owens expressed his thanks to W. H. Durham for his support for the Communications Carnival and indeed for his continued support of the Audio-Visual Committee. Owens also expressed his thanks to the subcommittee members and chairmen and to T. F. Collins for his work as secretary. He then turned the meeting over to Collins as chairman-elect.

Collins expressed his appreciation to Owens for the fine job he had done as the Committee chairman for the past two years. With no further business, the meeting was adjourned at 2:20 p.m.

T. F. Collins
Secretary

Final Report

University Audio Visual Subcommittee
Display and Demonstrations - Palmetto Room
March 6 & 7, 1979

The 1979 Audio Visual Display was held March 6 and 7, 1979, in the Palmetto Room of the University Union. Only three outside exhibitors presented their equipment -- R. L. Bryan Company of Columbia, Carolina Audio Visual of Columbia, and Technical Industries of Columbia. Stone Southern School Supply of Raleigh, NC, called at the last minute and canceled their appearance. The displays presented by the various departments were excellent, and the display by Dr. T. E. Burke was especially appealing.

Rather than contact the exhibitors by mail after the display, each was contacted in person during the last afternoon for their comments. There were no unfavorable comments, but it was apparent these exhibitors were somewhat disappointed with the small number of visitors. The facilities were excellent, space and electricity were adequate, refreshments and security were fine.

The time and effort that went into producing and sending posters and fliers to the campus and surrounding community, as well as the expense of refreshments, security, and administration of this display, possibly deserved a more popular display.

Recommendations:

1. Location of the Palmetto Room was adequate, and the cooperation of University personnel was outstanding.
2. Refreshments by food services were adequate; food services upheld their end of the bargain.
3. The help of Harry Durham and his department was certainly all that could be asked for.
4. The two-day display was perhaps too long and expensive for the number of visitors. Any future display should be shortened to no more than one day.

5. Would it be possible to incorporate this audio visual display with the displays of other departments next year? Both Engineering and the Computer Center also had somewhat similar displays of equipment during the year. Perhaps next year our display could be held in conjunction with one of these in order to attract more visitors.

William A. Shain
Associate Professor - Forestry

MINUTES OF THE COUNCIL OF ACADEMIC DEANS
MEETING, SEPTEMBER 17, 1979

The Council of Academic Deans met Sept. 17, 1979, in Riggs Hall conference room with the following persons present: Dean Hurst, Dean Anderson, Dean McClure, Dr. Kozma (for Dean Landrith), Professor Edwards (for Dean Wilcox), Dean Box, Dean Trevillian, Dean Cox, Dean Labecki, Ms. Janie Dillon (for Dean Vogel), Dean Reel, Dr. Brown (for Dean Schwartz), and Dr. Fleming.

Dean Hurst urged the deans to send through their CUBO-402 forms right away on their faculty members who received tenure this year.

Dean Hurst asked the deans to submit their nominations for an Alumni Visiting Professor for 1980-81 to him by not later than Nov. 15, 1979. He announced that the maximum amount of \$35,000 will again be available for salary, fringe benefits, travel, etc. In response to an inquiry as to whether these monies could be divided between two colleges--with each college perhaps having a visiting professor for one semester--Dean Hurst responded that he would prefer having one Alumni Visiting Professor in one college for the full academic year; however, other possibilities could be considered.

There was much discussion relative to Dean Hurst's memorandum rescinding his earlier requirement that faculty members provide transcripts for all degrees held by them. As the matter stands, only those faculty who joined or will join the faculty after July 1, 1979, will be re-

quired to supply transcripts of work completed and degrees awarded.

Dean Hurst gave the timetable for the upcoming self-study by the Southern Association of Colleges and Schools. He stated that a director will be named in December of 1979; a University Self-Study Committee will be appointed in the spring of 1980; the bulk of the work will be completed by departments and colleges in the first semester of 1980-81 and reports written during the second semester of 1980-81; a report will be submitted to SACS in the summer of 1981; and the team visit will be scheduled for the fall of 1981.

Dean Hurst announced that plans are under way for the inauguration ceremony for President Atchley. An inauguration committee, chaired by Dr. J. V. Reel, will be appointed this week. The inauguration is scheduled for Friday, April 18.

Dr. Brown informed the deans that work-study monies that are not being utilized by undergraduate students will now be available through our Financial Aid Office for use by graduate students--based on need. He explained that departmental graduate assistants could participate fully in the work-study program and that the 80% federal contributions would free up existing assistantship monies. This

has the approval of HEW and materials will be forthcoming to the deans in about two weeks.

Dr. Reel distributed a memorandum recommending to the deans that classes be suspended during the hours of the presidential inauguration ceremony on Friday, April 18, 1980. The deans concurred and the subject will now be presented to the Faculty Senate for their opinion and then presented to the Educational Council.

Dr. Reel distributed and briefly explained a report entitled, "Improving Internal Communications Progress Report." The report includes several recommendations--some which have been accomplished and some which are still under consideration. Dr. Reel requested the deans to study this report and be prepared to give their recommendations at the next meeting.

Dean Hurst announced that a schedule is being worked out for all department heads (in groups by college) to have lunch with President Atchley. Dean Hurst is coordinating the luncheon schedules with Mrs. Eddy in the President's office and she will send copies of the schedules to the deans for their information.

The meeting was adjourned at 10:05 a.m.

Respectfully submitted,
Annette Kesler

Calendar of Campus Events

- 1 -- Seminar: Mr. J. Virgil Waggoner, managing director of Monsanto Plastics and Resins Co., will lead a nontechnical discussion regarding his company's role in the chemical industry. Sponsored by Distinguished Chemical Industry Business Seminar Series, 1:25 p.m. Earle Hall Auditorium and 4:30 p.m. 131 Brackett Hall. Open to the public, no admission charge.
- 1-3 -- Art Exhibition: "Photo Exhibit." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 1-3 -- Movie: "Hair." Sponsored by University Union, YMCA Theater, 6:45 and 9 p.m., \$1 admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 1-2 -- Workshop: "Managing the Unsatisfactory Performer." Sponsored by Professional Development Office, call 656-2200 for more information.
- 2-3 -- Meeting: "S.C. Section of the American Society of Agricultural Engineers." McAdams Hall, call 656-3250 for more information.
- 2-3 -- Coffeehouse: "Amitava Ghosh." Sponsored by University Union, The Gutter, 9 p.m. University I.D. required, 50¢ donation requested.
- 2-3 -- Edgar's: "Applewood." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 2-21 -- Art Exhibitions: "Color and Light," series of silkscreens by Anna Campbell Bliss; "Ceramics," 25 ceramic bowls by Joan Tweedy; and "Three Photographic Portfolios," 45 photographs by three contemporary artists. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 3 -- Football: Wake Forest (Parents' Day), here, 1 p.m.
- 3 -- Open House in Agricultural Engineering Department, McAdams Hall.
- 3 -- Chicken Barbeque for Clemson-Wake Forest Game. Sponsored by Alpha Tau Alpha and Society for the Advancement of Agricultural Education, southeast side of Jervey Athletic Center, 10:30 a.m. - 12:30 p.m. Open to the public, \$2.50 per plate.
- 3 -- Engineer-In-Training Examination. Sponsored by College of Engineering, 226 Riggs Hall, 7:30 a.m. - 5 p.m.
- 3 -- Concert: "Kansas." Sponsored by University Union, Littlejohn Coliseum, 8 p.m. Open to the public, \$7.50 general admission, \$8.50 reserved floor seating. Call 656-2461 for more information.
- 4 -- Trip to Six Flags. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 4 -- Free Flick: "Deliverance." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 4-10 -- Art Exhibition: "Weavings on Weathered Wood Frames." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 5-8 -- Shortcourse: "Peach Production Short Course II." Sponsored by Horticulture Department, call 656-3403 for more information.
- 5-7 -- Workshop: "Cost Calculation and Control of Industrial Operations." Sponsored by Professional Development Office, call 656-2200 for more information.
- 5-7 -- Movie: "Midnight Express." Sponsored by University Union, YMCA Theater, 6:45 and 9 p.m., \$1 admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 5-11 -- Videotape: "On a Sunday Afternoon." Sponsored by University Union, loggia, shown several times daily.
- 6 -- Lecture: Mr. William S. Lee III, president of Duke Power Co., will speak at the Chi Epsilon - ASCE meeting. Sponsored by Civil Engineering Department, 100 Lowry Hall Auditorium, 7 p.m. Open to the public, no admission charge.
- 7 -- Speakers Bureau Presentation: "Bob Uecker," sportscaster for ABC "Monday Night Baseball," presents the more humorous sides of baseball. Sponsored by Speakers Bureau, Brackett Auditorium, 7 p.m. with a reception following. Open to the public, no admission charge.
- 7 -- English Hour Reading: "Locale as Theme," a reading by Dr. Richard A. Underwood of parts of two of his novels. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 7 -- Soccer: University of South Florida, here, 3 p.m.
- 7 -- Backgammon Tournament. Sponsored by University Union, Edgar's, 8 p.m.
- 7-9 -- Weaving and Spinning Display. Sponsored by University Union, loggia, call 656-2461 for more information.
- 7-9 -- Workshop: "Microprocessors Workshop." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 7-8 -- Workshop: "Motor Applications and Variable Speed Drives." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 8 -- Dinner Theatre: "Jenny the Mail-Order Bride." Sponsored by University Union, Edgar's, buffet style dinner at 6 p.m., play at 7:30 p.m. University I.D. and proof of age required, admission will be charged. Call 656-2461 for more information.
- 8-10 -- Movie: "A Little Romance." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 9-10 -- Coffeehouse: "Kirk Edwards." Sponsored by University Union, The Gutter, 9 p.m. University I.D. required, 50¢ donation requested.
- 10 -- Declamation Contest. High school students recite poetry in different languages for prizes. Sponsored by Languages Department, Daniel Hall, 8 a.m. - 3 p.m. Open to high school students and teachers. Call 656-3393 for more information.
- 10 -- Ice Skating and Shopping Trip to Eastland Mall. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 10-11 -- Overnight Trip to Gatlinburg. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 11 -- Free Flick: "Thief Who came to Dinner." Sponsored by University Union,

CALENDAR OF CAMPUS EVENTS (Cont.)

YMCA Theater, 8 p.m. University I.D. required, no admission charge.

- 12 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 12 -- Workshop: "Activated Sludge Systems." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 12-17 -- Drama: So Far from China by Howard Blanning. World premiere of a drama dealing with human emotions within a farm family in fictitious China, Kentucky. Presented by Clemson Players, Daniel Auditorium, 8 p.m. nightly except 3:30 p.m. matinee Thursday. Open to the public, no admission charge.
- 12-18 -- Videotape: "Leo Sayer." Sponsored by University Union, loggia, shown several times daily.
- 12-14 -- Movie: "Seven." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 12-13 -- Workshop: "Manager II." Sponsored by Professional Development Office, call 656-2200 for more information.
- 13-14 -- Conference: "13th Annual Turfgrass Conference." Co-sponsored by Extension Service, Horticulture Department, and Carolinas Golf Course Superintendents Association. Call 656-3403 for more information.
- 13-14 -- Workshop: "Slashing." Sponsored by Professional Development Office, call 656-2200 for more information.
- 14 -- Workshop: "Respiratory Care Nursing" for registered nurses. Sponsored by College of Nursing Continuing Education Department, call 656-3078 for more information.
- 14 -- Educational Film Series: "The Restless Search" and "The Great American Chocolate Factory." Sponsored by University Union, Edgar's, noon. University I.D. and proof of age required, bar will be open.
- 14 -- Workshop: "Short Interval Scheduling." Sponsored by Professional Development Office, call 656-2200 for more information.
- 15 -- Basketball: Athletes in Action (Men), Littlejohn Coliseum, 8 p.m.
- 15 -- Seminar: William A. McMinn, vice president of FMC Corp., leads a non-technical discussion on his company's role in the chemical industry. Sponsored by Distinguished Chemical Industry Business Seminar Series, 1:25 p.m. Earle Hall Auditorium, 4:30 p.m. 131 Brackett Hall. Open to the public, no admission charge.
- 15-16 -- Workshop: "Inventory Strategies." Sponsored by Professional Development Office, call 656-2200 for more information.
- 15 -- Table Tennis Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 15-17 -- Movie: "Frisco Kid." Sponsored by University Union, YMCA Theater, 6:45 and 9 p.m., \$1 admission charge.
- 16-17 -- Workshop: "Innovative Teaching/Learning Strategies." Sponsored by College of Nursing Continuing Education Department, call 656-3078 for more information.
- 16-17 -- Edgar's: "Kier Irmiter." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 16-17 -- Coffeehouse: "Jim Buch and Heidi." Sponsored by University Union, The Gutter, 9 p.m. University I.D. required, 50¢ donation requested.
- 17 -- Symposium: "Children's Literature Symposium." Sponsored by English Department and College of Liberal Arts, Daniel Auditorium, 8:30 a.m. until mid-afternoon. Open to adults working with children and children's literature, \$5 registration fee. Call 656-3151 for more information.
- 17 -- Day Trip to Stone Mountain. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 18 -- Free Flick: "Hunchback of Notre Dame." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 19 -- Concert: "Prague Chamber Orchestra" with piano soloist Hans Richter-Haaser. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season tickets, or individual tickets on sale at gate.
- 19 -- Foosball Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 19-20 -- Movie: Frisco Kid." Sponsored by University Union, YMCA Theater, 6:45 and 9 p.m., \$1 admission charge.
- 19-22 -- Videotape: "NFL Follies." Sponsored by University Union, loggia, shown several times daily.
- 21 -- Thanksgiving holidays begin after last class.
- 22 -- Flights Home for Thanksgiving. Contact University Union Travel Center, 656-2461, for details.
- 26 -- Classes Resume.
- 26-12/7 -- Room Change Period. Submit application to the Housing Office from 8 a.m. until 4:30 p.m. weekdays.
- 26-12/12 -- Videotape: "Great American Heroes." Sponsored by University Union, loggia, shown several times daily.
- 26-30 -- Jewelry Sale by Joe Burger. Sponsored by University Union, outside Palmetto Room of Union.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 26-28 -- Movie: "Eyes of Laura Mars." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 27 -- Billiards Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 27 -- Concert: "Ruth Cauble," pianist. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 27-30 -- Art Exhibition: "Architectural Thesis and Terminal Project Reviews." Daily reviews of projects representing culmination of five to six years of studies in the College of Architecture. Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m., open to the public, no admission charge.
- 28 -- Educational Film Series: "Commitment to Safety" and "Is Anybody Listening." Sponsored by University Union, Edgar's, noon. University I.D. and proof of age required, bar will be open.
- 28-29 -- Workshop: "Automated Drafting and Design." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 29-12/1 -- Movie: "Last Embrace." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 29 -- Workshop: "Respiratory Care Nursing" for licensed practical nurses. Sponsored by College of Nursing Continuing Education Department, call 656-3078 for more information.
- 29 -- Workshop: "Managing in an Inflationary and Uncertain Environment." Sponsored by Professional Development Office, call 656-2200 for more information.
- 30 -- Concert: "Son Seals Blues Band." Sponsored by University Union, Clemson House Ballroom, 8 p.m. Open to the public, ticket prices to be announced.
- 30-12/1 -- Basketball: IPTAY Invitational Tournament (Men), Littlejohn Coliseum, 7 and 9 p.m. each night.
- 30-12/1 -- Edgar's: "Allan Damron." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.

WEPR Highlights

South Carolina Educational Radio Network programs produced at Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg, WMPR 88.1 FM, Sumter, and WSCI 89.3 FM, Charleston.

Weekdays -- MORNING EDITION (beginning Nov. 5), 6 a.m., a lighter version of NPR's ALL THINGS CONSIDERED, with South Carolina news and features contributed by the University of South Carolina, the Clemson University studios of WEPR, and the Charleston studios of WSCI.

WEPR HIGHLIGHTS (Cont.)

P.M., 8 p.m., music and features with Jim Barnhill.

Mondays -- MAJORS AND MINORS ENCORES, 11 p.m., Ray Barfield.

Tuesdays -- A LITTLE NIGHT MUSIC, 10:30 p.m., Bill French.
(6, 13,
20, 27)

Thursdays -- PLOTS AND PROLOGUES (on P.M.), 8 p.m., Dr. Jerry Reel and Jim Barnhill;
(1, 8, 15, a preview of the 1979-80 Metropolitan Opera Season.
22, 29)

Fridays -- MAJORS AND MINORS, 3 p.m., Ray Barfield.
(2, 9,
16, 23, PLOTS AND PROLOGUES, 4:30 p.m.
30)

Saturdays -- TILLMAN FORUM, 11 a.m., Poet Lloyd Van Brunt with Dr. Bob Hill in a series
(3, 10, of readings/discussion.
17, 24)

CLEMSON SIDETRACK, 11 p.m., Henry Cook examines "Manfred Mann's Earth
Band," "The New Wave: Punk Rock," "Fleetwood Mac," and "Joe Walsh."

Sundays -- PERFORMANCE, 9 p.m., the Clemson Chamber Music Series presents (4) "Mark
(4, 11, Regnier, Guitarist," (11) "Gilbert and Sullivan Patter Songs," and
18, 25) "Lexington Park String Ensemble." The Greenville Symphony
Orchestra and Greenville Civic Chorale will perform on the 18th.



PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY



Vol. 19 No. 7

November 15, 1979

NOV 20 1979

CHAIRMAN NAMED FOR SELF-STUDY STEERING COMMITTEE

President Bill Atchley has appointed Dr. James E. Clark, associate professor of civil engineering, as chairman of the Steering Committee for Clemson University's self-study to be conducted under the auspices of the Southern Association of Colleges and Schools (SACS). Named as editor and secretary is Professor Frank L. Day, associate professor of English. Other members of the Steering Committee, which represents all areas of the University, will be named soon.

The proposed schedule calls for the Steering Committee to draw up the organizational study plan for the University during the spring semester of 1980. The self-study itself will be conducted during the 1980-81 year with the report being submitted to SACS in the summer of 1981.

An SACS team will visit the institution Sept. 27-30, 1981. We have been notified by SACS that colleges being visited in the fall of 1981 will be considered for reaccreditation by the Commission on Colleges of SACS in December of 1982. This schedule follows a pattern similar to the 1970-71 self-study.

INVITATION LIST FOR PRESIDENTIAL INAUGURATION BEING COMPILED

Faculty and staff members are invited to make suggestions for the list of colleges and universities that will be invited to send representatives to President Bill L. Atchley's inauguration April 18.

The inaugural committee has already compiled an extensive list of educational institutions that will receive an

invitation. It includes the following:

- . Members of the National Association of State Universities and Land-grant Colleges.
- . Members of the Southern Association of Universities and Colleges.
- . All institutions of higher education in South Carolina.

Suggestions about other four-year or more degree-granting institutions which should be added to the list may be sent to Dr. J. V. Reel, chairman of the inaugural committee, E-102 Martin Hall, by Dec. 15.

Reel also announced two additional appointments to the inauguration committee by Board of Trustees Chairman Paul W. McAlister. They are John L. Allen, acting director of University Relations, and W. Harry Durham, director of the University Communications Center.

ELIGIBILITY LAW FOR IN-STATE TUITION CHANGES

A change in the state law which spells out eligibility for in-state tuition and fees will be good news for some Clemson students.

The amendment provides that any dependent person who has been domiciled with his family in South Carolina for at least three years immediately prior to enrollment in a state-supported institution of higher learning, can enroll at the in-state rate and can continue to be enrolled at this rate even if the parent, spouse or guardian upon whom he is dependent moves his domicile from the state.

The provision will be included as item "C" under section 3 of the law which is printed in the 1979-80 University catalog.

ACCOUNTING AND FINANCE

George Thomas Friedlob (Asst Prof) was appointed chairman of the Research Committee of the Institute of Internal Auditors, Western Carolinas Chapter.

Prof. Friedlob is also the author of an article, "Effect IRS Gives to Restrictions in Determining Value of Stock Varies," published in Taxation for Lawyers, September/October 1979 issue. This article was first published in June 1979 Taxation for Accountants and was selected by editors for additional exposure.

B. Perry Woodside (Asst Prof) has co-authored with James B. Henry (Prof of Finance at USC) and James B. Edwards (Prof of Accounting at USC) an article, "Public Sector Leasing in South Carolina," which was published in the October 1979 issue of Management Accounting.

AGRICULTURAL ENGINEERING

Charles V. Privette (Assoc Prof) and Gerald D. Christenbury (Assoc Prof) attended the Eastern US 4-H Engineers Event in Richmond, VA, Sept. 24-27. Prof. Privette chaired the automotive event and Prof. Christenbury participated in the tractor operation and small engine events.

Barbara J. Griffin (Asst Prof) participated in the Annual Conference of the Consultative Council of the National Institute of Building Sciences in Chicago, IL, Oct. 9-10. She is a member of the Executive Council.

On Oct. 15-20, Prof. Griffin attended the annual meeting of the American Association of Housing Educators in Lubbock, TX. She serves as a member of the Board of Directors of AAHE.

Thomas V. Wilson (Prof) participated Sept. 26-27 in the Regional Research Committee meeting (Project S-143) on trickle irrigation in Atlanta, GA.

Byron K. Webb (Prof & Hd) served as a member of the USDA-SEA-CR Special Review Panel that examined the vegetable research program in the state of Texas at Texas A&M University Oct. 1-5.

Darrell L. Roberts (Prof) presented a lecture, "Wood Burning Systems - An Energy Alternative," at the Clemson University Housing Institute seminar on "Energy-Conscious Residential Design " Aug. 29-30.

Prof. Roberts participated in the Alcohol Fuels Workshop conducted at Colby Community College in Colby, KS, Aug. 24-28.

AGRICULTURAL SCIENCES

Bill R. Smith (Assoc Prof) was selected president elect for 1980 at the annual meeting of the South Carolina Chapter of the Soil Conservation Society of America held at Pine Island in Lexington County.

BOTANY

L. A. Dyck (Assoc Prof) has been awarded \$4,983 in energy-related laboratory equipment by the U. S. Energy Research and Development Administration (ERDA).

CHEMISTRY AND GEOLOGY

Villard S. Griffin Jr. (Prof, Geol) attended the Sixth Annual UMR-DNR Conference and Exposition on Energy at Rolla, MO, Oct. 16-18. He presented a research paper, "Thorium: An Energy Resource Controlled by Geology Complexity in the Southeastern U. S. Monazite Belt," at the Energy Resources - Production and Environmental Impact session.

H. G. Spencer (Prof, Chem) and J. L. Gaddis (Prof, Mech Eng) presented a paper, "Characterization of the Skin Layer of Asymmetric Hyperfiltration Membranes," at the 31st Annual Southeastern Regional

Meeting of the American Chemical Society, Oct. 24-26, Roanoke, VA.

R. A. Abramovitch (Prof and Hd) presented a seminar at the College of Charleston Oct. 9 on "Chemistry, Medicine & Agriculture." He gave an invited lecture Oct. 12 at the University of West Florida on "Electron Deficient Reactive Intermediates." On Oct. 16 he gave an invited lecture at the University of Illinois at Chicago Circle on "Rearrangements Involving Heteroaromatic N-Oxides." He visited Tennessee Eastman in Kingsport, TN, Oct. 23 and gave an invited lecture on "Electron Deficient Reactive Intermediates."

Prof. Abramovitch and his co-workers presented two papers at the 31st Annual Southeastern Regional Meeting of the American Chemical Society in Roanoke, VA, Oct. 24-26. The first, "The Acylation of Nitrones," was presented by Dorota A. Abramovitch (Grad Stu) and included work carried out in collaboration with H. P. Benecke (Vstg Instr). The second, "Effects of Substituents on the Direct Acylation of Pyridine-1-oxides," by R. A. Abramovitch, J. Pilski and P. Tomasik was presented by Prof. Pilski (Research Associate) and included work carried out in cooperation with colleagues in Poland.

John W. Huffman (Prof) and several of his students presented the following papers at the Southeastern Regional Meeting of the American Chemical Society, Oct. 24-26 in Roanoke, VA:

--Gary F. Hillenbrand (Grad Stu) and John W. Huffman, "The Robinson Annulation Applied to Hydroxycarvone."

--John W. Huffman, Raymon R. Elliott (Former Grad Stu) and Edward M. Huie (Former Undergrad Stu), "Semipinacolic Rearrangements of 1, 1-Diaryl-2-aminoethanols."

--William E. Swain (Grad Stu), John W. Huffman and John Jacobus (Tulane Univ), "The Conformation of Bicyclic Enones."

--C. Daniel Rowe (Grad Stu) and John W. Huffman, "Anomalous Enamine Reactions."

COMPUTER SCIENCE

Edward W. Page (Assoc Prof) co-authored a paper, "Error Control in a Microprocessor - Based Digital Telemetry System," that was presented at the ISA '79 Conference in Chicago, IL, Oct. 22-25. The paper was co-authored with Joe L. Wheeler (Manager, Electrocis Development, The Turbitrol Co, Atlanta, GA).

COUNSELING CENTER

The University Counseling Center hosted the Sixteenth Annual Southeastern Conference of Counseling Center Personnel at the Holiday Inn in Clemson Oct. 17-19. The conference was attended by over 170 counselors from 12 southeastern states and the District of Columbia. Approximately 40 programs were presented during the three-day conference. Lucile C. Reddick (Counselor) presented a program entitled "A Rape Prevention Workshop" at the conference Oct. 18.

ECONOMICS

Rex L. Cottle (Assoc Prof and Hd) presented a paper, "Police Protection: Can Marketplace Economics Improve Upon a Growing Taxpayer Concern?" which was co-authored with Clinton H. Whitehurst (Prof, IM) at The Institute of Management Science, Southeastern Chapter.

Ralph D. Elliott (Assoc Prof and Dir of Prof Dev) discussed a paper, "Legislative Profits and the Rate of Change of Money Wages," at the Atlantic Economic Society held Oct. 10-12 in Washington, DC.

Russell Shannon (Prof) published an article, "Table Fable," in the October 1979 issue of The Freeman, pp. 625-627.

EXTENSION HOME ECONOMICS

Rose J. Davis (Assoc Prof) and Janice R. McRee (Asst Prof) were participants at the HEW Conference on "Nutrition Education: Directions for the 1980's" held at the NIH Center in Bethesda, MD, Sept. 27-28. There were approximately 500 attendants (by invitation only) from throughout the nation, but the Cooperative Extension Service - USDA personnel accounted for only 15 of that number.

INDUSTRIAL EDUCATION

Alfred F. Newton (Prof and Hd) was elected to the Board of Directors of the Carolina Society for Training and Development at the fall conference Oct. 16-19 in Columbia.

INDUSTRIAL MANAGEMENT

Carl Gooding (Assoc Prof) presented a paper, "An Empirical Investigation of the Impact on Inflation on Effective Personal Income Tax Rates: 1946-1978," at the Eighth Atlantic Economic Conference held in Washington, DC, Oct. 10-13. The paper was co-authored by A. M. Sibley (Prof of Finance at Loyola Univ of New Orleans, formerly at Clemson).

J. Michael McDonald (Asst Prof) was the guest speaker at the Anderson County Dental Society Oct. 9.

J. Wayne Patterson (Asst Prof) presented the following papers at the Southeast TIMS meetings, which were held Oct. 3-5 at Myrtle Beach, and published in Proceedings: "Making Statistical Analysis Available to the Real Estate Analyst," "Special Queuing Considerations in a Self-Service Environment," and "Measurement of Efficiency in the Utilization of Physical Resources for Statewide Youth Service Bureaus: An Interstate Comparison." Prof. Patterson also published an article, "The Decision of a Full-Information Data Management System and a Real Estate Data Base for Use in Classroom Instruction and Academic Research," in the Journal of Data Education, October 1979.

Walter E. Riggs (Asst Prof) presented a paper, "Human vs. Heuristic Sequencing for the 'N' Job, 'M' Machine Flow Shop Problem," at the Annual Meeting of the Southeastern Chapter of the Institute for Management Science, Myrtle Beach, Oct. 3-5.

Hendrikus E.J.M.L. van Bulck (Asst Prof) presented two papers, "International Marketing Education at a Crossroad" and "Interdisciplinary or Multidisciplinary Marketing Education?" at the 1979 Annual Conference of the Mid Atlantic Marketing Association in Norfolk, VA, Oct. 6.

Prof. van Bulck was also appointed chairman of the 1980 Annual Conference of the Mid Atlantic Marketing Association which will be held at Clemson.

Thomas W. Zimmerer (Prof) conducted a workshop on "Supervisory Skills for Manufacturing Personnel" Oct. 17-18 at the Greenville Chamber of Commerce.

Prof. Zimmerer is also scheduled to participate in the Peach Production Short Course Nov. 6.

MATHEMATICAL SCIENCES

As one of the members of a 12-member team of the National Association of State Directors of Teacher Education and Certification, John D. Fulton (Prof and Hd) visited Erskine College to make recommendations to the State Review Committee concerning the status of the Erskine Teach Education Program. His area of responsibility in the site review was the Erskine Mathematics Teacher Education Program.

Prof. Fulton has had a paper published in Acta Arithmetica, Volume 35, pp. 17-24, 1979, entitled "Gauss Sums and Solutions to Simultaneous Equations Over GF (2^y)."

The South Carolina Council of Teachers of Mathematics held its Second Annual Fall Conference in Columbia Oct. 19-20. Over 600 mathematics teachers attended the meeting and the Department of Mathematical

Sciences was well represented in the activities. The convention elected John Kenelly (Prof) vice president for post secondary affairs. He will serve for a two-year term.

Prof. Fulton presented an invited talk, "What Mathematicians Do--Operations Research." John Luedeman (Assoc Prof) and Prof. Kenelly were part of a seven-teacher panel that presented "The 1979 Advanced Placement Exam in Mathematics." K. T. Wallenius (Prof) presented an hour talk, "Statistical Lies for Fun and Profit," at one of the work sessions.

Prof. Kenelly chaired a meeting of the College Board AP Mathematics Development Committee in Chicago, IL, Oct. 26-27. On Friday the committee sponsored a regional conference for AP Mathematics teachers at Lake Forrest College. Prof. Kenelly gave the banquet address at the conference.

On Nov. 3, Prof. Kenelly attended a Boston, MA, meeting at the Mathematical Association of America Calculus Area Panel. This group is constructing the MAA's curriculum recommendation for the basic courses in mathematics.

Fred W. Morgan (Asst Prof) was a delegate to the Southern Regional Education Board on Statistics Oct. 31-Nov. 2 at the University of Kentucky in Lexington. He reported on the Statistics Programs in the Department of Mathematical Sciences at Clemson.

MUSIC

Edith B. Card (Asst Prof) presented two programs of Appalachian Music (dulcimer and vocal) Oct. 18 in Fountain Inn. One was for the Fountain Inn Music Club and the other for the First Baptist Church of Fountain Inn.

Lillian Harder (Instr), pianist, and Martha Hamilton (Instr), flutist, presented an afternoon concert Oct. 28 at Brevard College as part of their Chamber Music Series.

PHYSICS AND ASTRONOMY

John Ray (Prof) recently presented two talks to the Department of Physics and Astronomy at the University of Georgia in Athens. A colloquium talk Oct. 18 was entitled "Time-Dependent Invariants and Cosmological Particle Creation." "Noether's Theorem and Time-Dependent Invariants" was the title of the talk presented at the Theoretical Physics Seminar Oct. 19.

PLANT PATHOLOGY AND PHYSIOLOGY

N. D. Camper (Prof) presented a progress report for Clemson's participation in the S-73 Regional Research Committee on Pesticide Residues in Lexington, KY, Oct. 8-10. He also served as the official delegate of the Clemson Chapter of Sigma Xi at the National Assembly of Delegates for Sigma Xi, the Scientific Research Society, held in Fontana, WI, Oct. 19-22.

PROFESSIONAL DEVELOPMENT

Kathryn S. Collins (Adm Asst) spoke at the Fall Conference of the South Carolina Association of Higher Continuing Education, held Oct. 17-19 in Spartanburg. Her topic was entitled "Writing and Designing Effective Brochures."

Edward S. Olson (Prof, Tex) is co-chairperson for a two-day conference, "Theory and Practice of Fabric Preparation," to be held on campus Dec. 4-5.

John H. Marvin (Prof, Text) is chairperson for a conference, "Current Technology in Carding and Sliver Preparation," to be held here Dec. 5-6.

Thomas B. Maertens (Asst Prof, IM) is chairperson for a two-day seminar, "Basic Management Processes for the Newly-Appointed Manager," to be held on campus Dec. 5-7.

Claude S. Simpson Jr. (Instr, IM and Asst Dir) is chairperson for two courses: "Technical Sales" to be held Dec. 10-11

on campus and "Names and Faces" to be held Dec. 12 at the Clemson Holiday Inn.

Bob L. Rutledge (Assoc Prof, Text) and Christine Jarvis (Assoc Prof, Text) are chairpersons for a three-day conference on "Foam" to be held on campus Dec. 11-13.

J. Michael McDonald (Asst Prof, IM) is chairperson for two on-campus courses: "From Secretary to Administrative Assistant," Dec. 12, and "Preventing Poor Performance," Dec. 13-14.

TEXTILES

Hassan M. Behery (Assoc Prof) attended the Annual Conference of the Textile Industries Division of the ASME (American Society of Mechanical Engineers) in Greenville Oct. 16-17. He was the program chairman of the conference.

Prof. Behery presented a paper, "Fiber Migration and Characteristics in Open-End Spun Cotton-Rich Blended Yarn," at the ASME-Textile Industries Division, Annual Conference held in Greenville Oct. 16-17. Co-authors of this paper are E. A. Vaughn (Prof and Hd) and Marc Lee (former Grad Stu). This paper is part of the research work of the cooperative program with the U.S.D.A.-ARS at Clemson.

Prof. Behery presented another paper at the conference, "A Method for Evaluation of Fabric Performance for Particular End Use," co-authored by D. W. Lyons (Prof). This paper is part of the research work carried out under a contract with the United States Air Force.

One of Prof. Behery's co-workers presented a paper at the conference entitled "Evaluation of the Engineering Approach of Fabric Hand." Miss Joyce Munson (Grad Stu) gave the presentation. The paper is part of her master's degree thesis.

Christine W. Jarvis (Asst Prof) presented a paper with P. A. Danforth (Grad Stu), B. A. Kolinofsky (Grad Stu) and Prof. Vaughn on "Comparison of Foam and Saturate Bonded Nonwovens" at the conference Oct. 17.

Prof. Jarvis has also received a grant of \$5,000 from ITT Rayonier for a project entitled "Overview of the Use of Rayon in Nonwovens from Fabric Formation to Marketing Possibilities."

Prof. Lyons presented a paper, "Contact Drying of a Sheet of Moist Fibrous Materials," at the conference, and the paper will be published in the ASME Transactions Journal of Engineering for Industry. Prof. Lyons also served as vice-chairman of one of the technical sessions for this conference.

Prof. Lyons was appointed by the secretary of the Department of Health, Education and Welfare to serve as a continuing member of the Occupational Health and Safety Study Section. The 16 members of this study section are appointed to advise the director of the National Institute for Occupational Safety and Health concerning the award of research and training grants. NIOSH will provide funding for over \$30 million for research and training grants during the next year. The Study Section will review and assign a priority to all proposals for new or continuing grants.

ZOOLOGY

Sidney A. Gauthreaux Jr. (Prof) has been reappointed by Governor Riley to the Heritage Trust Advisory Board.

Edward Ruppert (Asst Prof) has been invited to teach the 1980 summer invertebrate zoology course at the Friday Harbor Marine Laboratories of the University of Washington.

John P. Wourms (Assoc Prof) presented a co-authored paper with Julian Lombardi (Grad Stu) entitled "Convergent Evolution of Trophotaenidae and Other Gut-derived Embryonic Adaptations in Viviparous Teleosts" at the 59th Annual Meeting of the American Society of Ichthyologists and Herpetologists at the University of Maine (Orono). An abstract of the same title appeared in the meeting's proceedings.

Prof. Wourms, along with the American Society of Zoologists, has also been awarded grants from the National Science Foundation (\$4,000) and the U. S. Fish and Wildlife Service (\$2,000) to fund a symposium on the "Developmental Biology of Fishes" to be held in December at Tampa, FL.

Darrell G. Yardley (Asst Prof) presented a paper, "Biochemical Genetics of the Amylase System of Drosophila pseudo-obscura," at the 1979 Southeastern Ecological Genetics Conference held at Beaufort, NC.

FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1979-80

MAJOR	NON-DEGREE	PROF MAST	MA/MS	EDS	PHD	TOTAL
COLLEGE OF AGRICULTURAL SCIENCES						
AGRIC (UNDECLARED)	10	0	0	0	0	10
AGRIC ECON	0	5	15	0	0	20
AGRIC ENGR	0	0	5	0	3	8
AGRIC MECH	0	7	0	0	0	7
AGRONOMY	0	5	7	0	6	18
ANIMAL & FOOD IND	0	0	26	0	0	26
ANIMAL PHYSIOLOGY	0	0	0	0	11	11
ANIMAL SCIENCE	0	4	0	0	0	4
APPLIED ECONOMICS	0	0	0	0	9	9
DAIRY SCIENCE	0	4	2	0	0	6
ENTOMOLOGY	0	2	18	0	11	31
HORTICULTURE	0	3	17	0	0	20
NUTRITION	0	15	19	0	8	42
PLANT PATHOLOGY	0	0	8	0	4	12
PLANT PHYSIOLOGY	0	0	0	0	13	13
POULTRY SCIENCE	0	2	1	0	0	3
WILDLIFE BIOLOGY	0	0	19	0	0	19
TOTAL AGRICULTURAL SCIENCES	10	47	137	0	65	259
COLLEGE OF ARCHITECTURE						
ARCH (UNDECLARED)	1	0	0	0	0	1
ARCHITECTURE	0	60	0	0	0	60
CITY & REGION PLAN	0	23	0	0	0	23
VISUAL STUDIES	0	12	0	0	0	12
TOTAL ARCHITECTURE	1	95	0	0	0	96
COLLEGE OF EDUCATION						
EDUC (UNDECLARED)	414	0	0	0	0	414
ADM & SUPERVISION	0	54	0	51	0	105
AGRIC EDUC	0	6	0	0	0	6
ELEMENTARY EDUC	0	210	0	0	0	210
INDUSTRIAL EDUC	0	19	0	0	0	19
PERSONNEL SERVICES	0	178	0	0	0	178
READING	0	81	0	0	0	81
SEC EDUC (ENGLISH)	0	9	0	0	0	9
SEC EDUC (HISTORY)	0	11	0	0	0	11
SEC EDUC (MATH)	0	10	0	0	0	10
SEC EDUC (NAT SCI)	0	13	0	0	0	13
TOTAL EDUCATION	414	591	0	51	0	1056

FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1979-80 (Cont.)

<u>MAJOR</u>	<u>NON- DEGREE</u>	<u>PROF MAST</u>	<u>MA/MS</u>	<u>EDS</u>	<u>PHD</u>	<u>TOTAL</u>
COLLEGE OF ENGINEERING						
ENGINEERING (UNDECLARED)	11	0	0	0	0	11
BIOENGINEERING	0	0	12	0	3	15
CERAMIC ENGR	0	0	2	0	0	2
CHEMICAL ENGR	0	3	13	0	3	19
CIVIL ENGR	0	13	19	0	7	39
EL & COMP ENGR	0	13	25	0	10	48
ENGR MECHANICS	0	0	2	0	1	3
ENVIR SYS ENGR	0	15	21	0	11	47
MATERIALS ENGR	0	0	2	0	0	2
MECHANICAL ENGR	0	13	14	0	4	31
SYSTEMS ENGR	0	0	9	0	4	13
TOTAL ENGINEERING	11	57	119	0	43	230
COLLEGE OF IND MGT & TEXTILE SCI						
IM&TS (UNDECLARED)	10	0	0	0	0	10
ECONOMICS	0	0	14	0	0	14
ENGR MANAGEMENT	0	0	0	0	14	14
MANAGEMENT	0	0	28	0	0	28
MANAGEMENT SCIENCE	0	0	0	0	7	7
TEXT & POLY SCI	0	0	0	0	8	8
TEXTILE CHEMISTRY	0	0	5	0	0	5
TEXTILE SCIENCE	0	0	5	0	0	5
TOTAL IND MGT & TEXTILE SCI	10	0	52	0	29	91
COLLEGE OF LIBERAL ARTS						
LIBERAL ARTS (UNDECLARED)	2	0	0	0	0	2
ENGLISH	0	0	33	0	0	33
HISTORY	0	0	10	0	0	10
TOTAL LIBERAL ARTS	2	0	43	0	0	45
COLLEGE OF NURSING						
NURSING (UNDECLARED)	1	0	0	0	0	1
NURSING	0	0	15	0	0	15
TOTAL NURSING	1	0	15	0	0	16
COLLEGE OF SCIENCES						
SCI (UNDECLARED)	12	0	0	0	0	12
BIOCHEMISTRY	0	0	13	0	10	23
BOTANY	0	0	11	0	0	11
CHEMISTRY	0	0	16	0	17	33
MATHEMATICAL SCI	0	0	58	0	8	66
MICROBIOLOGY	0	0	25	0	0	25
PHYSICS	0	0	18	0	10	28
ZOOLOGY	0	0	20	0	21	41
TOTAL SCIENCES	12	0	161	0	66	239

FINAL ENROLLMENT IN GRADUATE SCHOOL, FIRST SEMESTER 1979-80 (Cont.)

<u>MAJOR</u>	<u>NON- DEGREE</u>	<u>PROF MAST</u>	<u>MA/MS</u>	<u>EDS</u>	<u>PHD</u>	<u>TOTAL</u>
COLLEGE OF FOR & REC RESOURCES						
FOR & REC RES (UNDECLARED)	2	0	0	0	0	2
FORESTRY	0	7	17	0	0	24
REC & PARK ADM	0	22	0	0	0	22
TOTAL FOR & REC RESOURCES	2	29	17	0	0	48

GRAND TOTAL	463	819	544	51	203	2080
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CLEMSON/FURMAN MBA PROGRAM	190
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Enrollment by Men and Women - Full Time and Part Time
Clemson University
First Semester 1979-1980

Classification	MEN			WOMEN			TOTAL		
	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1st Semester Freshman	1221	30	1251	914	48	962	2135	78	2213
2nd Semester Freshman	387	13	400	168	9	177	555	22	577
Sub-Total	1608	43	1651	1082	57	1139	2690	100	2790
1st Semester Sophomore	904	17	921	666	29	695	1570	46	1616
2nd Semester Sophomore	393	16	409	180	18	198	573	34	607
Sub-Total	1297	33	1330	846	47	893	2143	80	2223
1st Semester Junior	779	30	809	581	15	596	1360	45	1405
2nd Semester Junior	478	16	494	216	10	226	694	26	720
Sub-Total	1257	46	1303	797	25	822	2054	71	2125
1st Semester Senior	674	27	701	465	7	472	1139	34	1173
2nd Semester Senior	511	80	591	203	34	237	714	114	828
Sub-Total	1185	107	1292	668	41	709	1853	148	2001
TOTAL	5347	229	5576	3393	170	3563	8740	399	9139
Graduate - Masters Level	438	320	758	181	444	625	619	764	1383
Postgraduate	32	21	53	10	22	32	42	43	85
Non-Degree	7	2	9	2	5	7	9	7	16
Graduate - Ph.D. Level	125	33	158	31	5	36	156	38	194
TOTAL	602	376	978	224	476	700	826	852	1678
CAMPUS TOTAL	5949	605	6554	3617	646	4263	9566	1251	10817
Institutes	0	176	176	0	565	565	0	741	741
Clemson-Furman MBA	2	151	153	1	36	37	3	187	190
UNIVERSITY TOTAL	5951	932	6883	3618	1247	4865	9569	2179	11748

Total Enrollment by Courses and Academic Classification

Clemson University
First Semester 1979-1980

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Agriculture (Non-Degree)	0	0	0	0	0	0	0	0	0	10	0	0	10
Agriculture	2	0	3	0	1	1	1	1	2	0	0	0	11
Agricultural Economics	7	4	7	1	6	7	7	6	0	20	0	0	65
Agricultural Engineering	18	4	14	2	9	5	7	9	1	5	3	0	77
Agric Mech and Business	12	8	5	5	9	12	8	8	0	6	0	0	73
Agonomy	4	3	4	10	13	4	14	14	0	13	5	0	84
Animal & Food Industries	0	0	0	0	0	0	0	0	0	25	0	0	25
Animal Industries	2	0	1	0	0	0	1	0	0	0	0	0	4
Animal Physiology	0	0	0	0	0	0	0	0	0	0	10	0	10
Animal Science	30	9	24	6	21	6	19	10	0	5	0	0	130
Applied Economics	0	0	0	0	0	0	0	0	0	0	8	0	8
Community & Rural Development	1	0	2	0	0	0	1	3	0	0	0	0	7
Dairy Science	13	4	6	0	3	1	3	2	0	5	0	0	37
Economic Biology	3	2	3	0	3	2	1	0	0	0	0	0	14
Economic Zoology	8	5	6	3	10	2	13	6	0	0	0	0	53
Entomology	3	0	0	0	1	3	5	0	0	21	11	0	44
Food Science	7	1	3	2	6	2	2	1	0	0	0	0	24
Horticulture	30	8	23	21	26	20	38	28	4	19	0	0	217
Nutrition	2	0	0	0	0	0	0	0	0	33	8	0	43
Plant Pathology	0	0	0	0	0	0	1	0	0	8	4	0	13
Plant Physiology	0	0	0	0	0	0	0	0	0	0	11	0	11
Plant Science	1	0	0	1	0	0	0	0	0	0	0	0	2
Poultry Science	3	0	6	1	5	2	2	3	0	3	0	0	25
Wildlife Biology	0	0	0	0	0	0	0	0	0	19	0	0	19
College Total	146	48	107	52	113	67	123	91	7	192	60	0	1006
Architecture (Non-Degree)	0	0	0	0	0	0	0	0	0	1	0	0	1
Architecture	7	1	2	1	2	1	1	1	2	60	0	0	78
Building Science	6	3	9	4	7	5	14	10	1	0	0	0	59
City and Regional Planning	0	0	0	0	0	0	0	0	0	22	0	0	22
Design (BA)	21	4	5	4	7	1	14	5	2	0	0	0	63
Design	49	9	44	9	31	10	23	14	3	1	0	0	193
Visual Studies	0	0	0	0	0	0	0	0	0	12	0	0	12
College Total	83	17	60	18	47	17	52	30	8	96	0	0	428

Total Enrollment by Courses and Academic Classification

Clemson University

First Semester

Page Two

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Education (Non-Degree)	0	0	0	0	0	0	0	0	0	151	0	0	151
Education	0	0	0	0	1	0	0	1	2	0	0	0	6
Administration and Supervision	0	0	0	0	0	0	0	0	0	70	0	0	70
Agricultural Education	9	3	3	0	8	9	10	5	1	4	0	0	52
Early Childhood Education	28	6	23	7	33	13	29	16	0	0	0	0	155
Elementary Education	59	16	57	22	58	28	69	31	3	114	0	0	457
Industrial Education	13	0	7	9	8	9	7	10	0	18	0	0	81
Industrial Education (Ind.Art)	3	3	5	2	8	4	7	3	0	0	0	0	35
Industrial Education (Indust.)	4	4	1	0	7	4	4	3	0	0	0	0	27
Industrial Education (Voc-Tec)	3	2	0	3	2	0	0	1	0	0	0	0	11
Personnel Services	0	0	0	0	0	0	0	0	0	129	0	0	129
Reading	0	0	0	0	0	0	0	0	0	51	0	0	51
Science Teaching	0	0	0	0	3	1	1	0	0	0	0	0	5
Science Teaching (Biol Sci)	1	2	7	0	5	1	5	4	0	0	0	0	25
Science Teaching (Chemistry)	0	1	2	1	0	0	0	0	0	0	0	0	4
Science Teaching (Earth Sci)	0	0	2	2	1	2	2	2	0	0	0	0	11
Science Teaching (Mathematics)	2	0	3	0	5	2	3	2	0	0	0	0	17
Science Teaching (Physical Sci)	0	0	0	1	2	0	4	1	0	0	0	0	8
Secondary Education	2	1	6	5	3	2	8	2	2	0	0	0	31
Secondary Education (Econ)	0	0	0	0	1	0	0	0	0	0	0	0	1
Secondary Education (English)	5	1	7	2	8	10	3	6	1	8	0	0	51
Secondary Education (History)	4	0	4	0	7	3	8	3	0	6	0	0	35
Secondary Education (Math)	7	0	9	2	5	2	4	1	0	7	0	0	37
Secondary Education (French)	0	0	1	0	0	0	0	1	0	0	0	0	2
Secondary Education (German)	0	0	0	0	0	0	0	1	0	0	0	0	1
Secondary Education (Spanish)	1	0	0	0	1	0	0	0	0	0	0	0	2
Secondary Education (Nat Sci)	2	0	1	0	2	1	2	2	0	12	0	0	22
Secondary Education (Pol Sci)	0	0	0	0	0	0	1	0	0	0	0	0	1
Secondary Education (Psych)	0	1	1	1	4	0	0	2	1	0	0	0	10
Secondary Education (Soc)	0	0	0	0	0	0	0	0	0	0	0	0	0
College Total	143	40	139	59	172	91	167	97	10	570	0	0	1488

Total Enrollment by Courses and Academic Classification
Clemson University
First Semester
Page Three

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Engineering (Non-Degree)	0	0	0	0	0	0	0	0	0	7	0	0	7
Engineering	25	6	4	3	3	0	2	1	0	0	0	0	44
Bio-Engineering	0	0	0	0	0	0	0	0	0	12	3	0	15
Ceramic Engineering	19	4	6	6	27	6	9	11	0	1	0	0	89
Chemical Engineering	95	14	73	18	37	29	40	34	0	16	3	0	359
Civil Engineering	99	30	86	40	60	32	47	46	2	30	7	0	479
Electrical Engineering	161	43	97	29	59	47	44	48	6	38	8	0	580
Engineering Analysis	6	1	2	1	2	1	2	8	0	0	0	0	23
Engineering Mechanics	0	0	0	1	0	0	0	0	0	2	1	0	4
Engineering Technology	79	15	16	23	37	30	31	31	1	0	0	0	263
Environmental Systems Engr	1	0	0	0	0	0	0	0	0	37	9	0	47
Materials Engineering	0	0	0	0	0	0	0	0	0	3	0	0	3
Mechanical Engineering	134	32	92	39	80	39	45	25	10	26	4	1	527
Systems Engineering	0	0	0	0	0	0	0	0	0	9	4	0	13
Water Resources Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0
College Total	619	145	376	160	305	184	220	204	19	181	39	1	2453
I M and T S (Non-Degree)	0	0	0	0	0	0	0	0	0	9	0	0	9
Accounting	88	19	77	24	50	20	29	27	2	0	0	0	336
Administrative Management	207	76	168	84	150	79	110	99	2	0	0	1	976
Economics (BA)	9	5	8	3	9	5	6	4	0	0	0	0	49
Economics	7	2	11	7	25	9	22	10	0	14	0	0	107
Engineering Management	0	0	0	0	0	0	0	0	0	0	14	0	14
Financial Management	139	47	118	29	70	23	50	19	0	0	0	0	495
Industrial Management	29	13	45	21	31	22	25	15	0	0	0	0	201
Management	2	0	0	0	0	0	0	0	0	27	0	0	29
Management Science	0	0	0	0	0	0	0	0	0	0	6	0	6
Textile and Polymer Science	0	0	0	0	0	0	0	0	0	0	8	0	8
Textile Chemistry	9	0	4	2	5	1	2	2	0	4	0	0	29
Textile Science	2	0	2	0	2	0	0	1	0	5	0	0	12
Textile Technology	4	2	8	4	16	7	7	5	0	0	0	0	53
College Total	496	164	441	174	358	166	251	182	4	59	28	1	2324

Total Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
 Page Four

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Liberal Arts (Non-Degree)	0	0	0	0	0	0	0	0	0	4	0	0	4
Liberal Arts	36	4	9	3	5	0	0	0	0	0	0	0	57
English	39	12	29	7	28	14	22	14	0	32	0	1	198
French	11	1	3	0	7	2	1	4	0	0	0	0	29
German	1	0	1	0	2	1	0	0	0	0	0	0	5
History	11	11	10	6	10	9	5	0	0	10	0	0	72
Political Science	34	14	22	13	22	10	28	12	0	0	0	1	156
Psychology	44	5	43	7	38	12	22	18	2	0	0	0	191
Sociology	12	4	18	4	22	11	14	10	0	0	0	0	95
Spanish	4	0	3	1	3	1	4	2	0	0	0	0	18
College Total	192	51	138	41	137	60	96	60	2	46	0	2	825
Nursing (Non-Degree)	1	0	0	0	0	0	0	0	0	1	0	0	2
Nursing AA	34	6	27	8	7	3	0	6	0	0	0	0	91
Nursing	68	16	57	12	46	24	67	18	6	14	0	0	328
College Total	103	22	84	20	53	27	67	24	6	15	0	0	421
Sciences (Non-Degree)	0	0	0	0	0	0	0	0	0	13	0	0	13
Biochemistry	12	3	11	3	13	6	5	1	0	13	10	0	77
Botany	4	2	3	1	3	4	0	1	0	13	0	0	31
Chemistry (BA)	0	0	1	0	2	0	1	1	0	0	0	1	6
Chemistry	17	5	4	2	8	1	8	6	0	16	17	0	84
Geology (BA)	1	0	0	1	2	0	2	1	0	0	0	0	7
Geology	3	2	6	2	4	2	3	1	0	0	0	0	23
Mathematics (BA)	7	3	8	0	4	0	6	0	0	0	0	0	28
Mathematics	93	13	52	9	39	12	28	12	0	58	8	0	324
Medical Technology	19	2	6	2	10	0	7	0	0	0	0	0	46
Microbiology	17	5	28	7	21	17	19	17	0	25	0	1	157
Physics (BA)	1	0	0	0	2	0	0	0	0	0	0	0	3
Physics	4	2	5	0	6	4	7	4	1	18	10	1	62
Pre-Dentistry	2	0	3	1	0	0	0	0	0	0	0	0	6
Pre-Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-Medicine Core	67	6	6	0	2	0	1	1	1	0	0	0	84
Pre-Pharmacy	21	3	16	0	1	0	0	0	0	0	0	0	41
Pre-Physical Therapy	19	4	19	1	3	1	0	0	0	0	0	0	47
Zoology	24	5	30	9	21	9	23	12	0	20	22	0	175
College Total	311	55	198	38	141	56	110	57	2	176	67	3	1214

Total Enrollment by Courses and Academic Classifications
 Clemson University
 First Semester
 Page Five

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
For & Rec Res (Non-Degree)	0	0	0	0	0	0	0	0	0	3	0	0	3
Forest Management	32	9	24	7	11	16	13	39	1	23	0	0	175
Recreation and Park Adm	47	22	47	36	63	36	71	41	0	22	0	0	385
Wood Utilization	1	3	2	2	5	0	3	2	0	0	0	0	18
College Total	80	34	73	45	79	52	87	82	1	48	0	0	581
Non-Degree	40	1	0	0	0	0	0	1	26	0	0	9	77
College Total	40	1	0	0	0	0	0	1	26	0	0	9	77
UNIVERSITY TOTAL	2213	577	1616	607	1405	720	1173	828	85	1383	194	16	10817

Male Enrollment by Courses and Academic Classification

Clemson University
First Semester 1979-1980

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Agriculture (Non-Degree)	0	0	0	0	0	0	0	0	0	7	0	0	7
Agriculture	1	0	2	0	0	1	0	0	2	0	0	0	6
Agricultural Economics	6	3	6	0	4	7	5	4	0	15	0	0	50
Agricultural Engineering	15	4	13	2	9	5	6	7	1	5	3	0	70
Agric Mech and Business	12	7	5	5	9	12	8	8	0	6	0	0	72
Agronomy	3	3	4	8	11	4	13	13	0	11	5	0	75
Animal & Food Industries	0	0	0	0	0	0	0	0	0	18	0	0	18
Animal Industries	1	0	1	0	0	0	0	0	0	0	0	0	2
Animal Physiology	0	0	0	0	0	0	0	0	0	0	7	0	7
Animal Science	12	6	16	4	10	4	12	5	0	4	0	0	73
Applied Economics	0	0	0	0	0	0	0	0	0	0	4	0	4
Community & Rural Development	0	0	1	0	0	0	0	0	0	0	0	0	1
Dairy Science	7	3	3	0	1	0	3	1	0	4	0	0	22
Economic Biology	2	2	0	0	2	2	0	0	0	0	0	0	8
Economic Zoology	6	4	3	3	6	1	4	4	0	0	0	0	31
Entomology	3	0	0	0	0	0	4	0	0	17	8	0	32
Food Science	2	0	1	0	0	0	0	1	0	0	0	0	4
Horticulture	18	6	11	15	14	11	23	16	2	11	0	0	127
Nutrition	2	0	0	0	0	0	0	0	0	18	4	0	24
Plant Pathology	0	0	0	0	0	0	1	0	0	4	4	0	9
Plant Physiology	0	0	0	0	0	0	0	0	0	0	9	0	9
Plant Science	1	0	0	1	0	0	0	0	0	0	0	0	2
Poultry Science	2	0	2	1	4	2	1	2	0	1	0	0	15
Wildlife Biology	0	0	0	0	0	0	0	0	0	16	0	0	16
College Total	93	38	68	39	70	49	80	61	5	137	44	0	684
Architecture (Non-Degree)	0	0	0	0	0	0	0	0	0	0	0	0	0
Architecture	5	0	2	1	1	1	1	1	2	54	0	0	68
Building Science	4	3	8	3	6	5	14	10	1	0	0	0	54
City and Regional Planning	0	0	0	0	0	0	0	0	0	10	0	0	10
Design (BA)	10	3	2	3	4	1	8	4	1	0	0	0	36
Design	39	7	38	8	24	7	19	14	3	1	0	0	160
Visual Studies	0	0	0	0	0	0	0	0	0	8	0	0	8
College Total	58	13	50	15	35	14	42	29	7	73	0	0	336

Male Enrollment by Courses and Academic Classification

Clemson University

First Semester

Page Two

Major Course	Freshman		Sophomore		Junior		Senior		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Education (Non-Degree)	0	0	0	0	0	0	0	0	0	43	0	0	43
Education	0	0	0	0	0	0	0	0	2	0	0	0	2
Administration and Supervision	0	0	0	0	0	0	0	0	0	51	0	0	51
Agricultural Education	8	3	3	0	7	9	10	4	0	3	0	0	47
Early Childhood Education	0	0	0	0	0	0	1	0	0	0	0	0	1
Elementary Education	1	1	2	2	2	2	5	4	1	3	0	0	23
Industrial Education	12	0	6	5	5	9	7	8	0	16	0	0	68
Industrial Education (Ind Art)	2	2	2	1	5	3	6	3	0	0	0	0	24
Industrial Education (Indust)	4	4	1	0	4	4	2	3	0	0	0	0	22
Industrial Education (Voc-Tec)	1	2	0	2	2	0	0	1	0	0	0	0	8
Personnel Services	0	0	0	0	0	0	0	0	0	37	0	0	37
Reading	0	0	0	0	0	0	0	0	0	2	0	0	2
Science Teaching	0	0	0	0	1	0	1	0	0	0	0	0	2
Science Teaching (Biol Sci)	0	0	2	0	1	1	1	2	0	0	0	0	7
Science Teaching (Chemistry)	0	0	1	0	0	0	0	0	0	0	0	0	1
Science Teaching (Earth Sci)	0	0	0	2	1	1	1	2	0	0	0	0	7
Science Teaching (Mathematics)	0	0	2	0	3	1	1	0	0	0	0	0	7
Science Teaching (Physical Sci)	0	0	0	0	1	0	0	1	0	0	0	0	2
Secondary Education	1	0	1	3	3	1	0	0	0	0	0	0	9
Secondary Education (Econ)	0	0	0	0	1	0	0	0	0	0	0	0	1
Secondary Education (English)	0	1	1	1	0	1	0	0	0	0	0	0	4
Secondary Education (History)	1	0	3	0	3	2	6	3	0	3	0	0	21
Secondary Education (Math)	2	0	0	0	1	1	2	0	0	2	0	0	8
Secondary Education (French)	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Education (German)	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Education (Spanish)	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Education (Nat Sci)	0	0	1	0	1	0	0	1	0	5	0	0	8
Secondary Education (Pol Sci)	0	0	0	0	0	0	1	0	0	0	0	0	1
Secondary Education (Psych)	0	0	0	0	0	0	0	0	1	0	0	0	1
Secondary Education (Soc)	0	0	0	0	0	0	0	0	0	0	0	0	0
College Total	32	13	25	16	41	35	44	32	4	165	0	0	407

Male Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
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Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Engineering (Non-Degree)	0	0	0	0	0	0	0	0	0	6	0	0	6
Engineering	18	5	3	3	3	0	1	1	0	0	0	0	34
Bio-Engineering	0	0	0	0	0	0	0	0	0	11	2	0	13
Ceramic Engineering	10	3	3	6	25	5	9	10	0	1	0	0	72
Chemical Engineering	66	14	63	14	30	25	36	30	0	16	3	0	297
Civil Engineering	83	27	74	36	51	26	43	42	2	29	6	0	419
Electrical Engineering	141	40	86	24	54	41	44	47	3	36	7	0	523
Engineering Analysis	5	1	2	1	1	1	2	7	0	0	0	0	20
Engineering Mechanics	0	0	0	1	0	0	0	0	0	1	1	0	3
Engineering Technology	72	15	14	20	33	28	31	30	1	0	0	0	244
Environmental Systems Engr	1	0	0	0	0	0	0	0	0	34	9	0	44
Materials Engineering	0	0	0	0	0	0	0	0	0	2	0	0	2
Mechanical Engineering	128	32	90	38	76	37	43	24	10	26	4	1	509
Systems Engineering	0	0	0	0	0	0	0	0	0	6	4	0	10
Water Resources Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0
College Total	524	137	335	143	273	163	209	191	16	168	36	1	2196
I M and T S (Non-Degree)	0	0	0	0	0	0	0	0	0	5	0	0	5
Accounting	37	16	36	10	27	13	17	19	1	0	0	0	176
Administrative Management	132	56	94	62	94	67	73	78	1	0	0	0	657
Economics (BA)	6	3	4	1	5	3	4	3	0	0	0	0	29
Economics	6	2	8	4	17	8	15	9	0	11	0	0	80
Engineering Management	0	0	0	0	0	0	0	0	0	0	10	0	10
Financial Management	72	36	76	22	39	16	28	15	0	0	0	0	304
Industrial Management	22	10	32	19	24	20	23	14	0	0	0	0	164
Management	2	0	0	0	0	0	0	0	0	18	0	0	20
Management Science	0	0	0	0	0	0	0	0	0	0	5	0	5
Textile and Polymer Science	0	0	0	0	0	0	0	0	0	0	7	0	7
Textile Chemistry	7	0	3	1	4	1	1	2	0	3	0	0	22
Textile Science	1	0	1	0	1	0	0	1	0	2	0	0	6
Textile Technology	4	1	6	4	11	5	5	5	0	0	0	0	41
College Total	289	124	260	123	222	133	166	146	2	39	22	0	1526

Male Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
 Page Four

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Liberal Arts (Non-Degree)	0	0	0	0	0	0	0	0	0	3	0	0	3
Liberal Arts	13	1	2	3	3	0	0	0	0	0	0	0	22
English	11	3	5	3	8	8	9	5	0	18	0	0	70
French	4	0	0	0	0	0	0	1	0	0	0	0	5
German	0	0	0	0	0	1	0	0	0	0	0	0	1
History	3	8	6	3	6	4	4	0	0	4	0	0	38
Political Science	19	11	15	10	12	7	13	9	0	0	0	0	96
Psychology	8	2	9	4	13	3	6	6	2	0	0	0	53
Sociology	1	0	5	1	7	2	3	2	0	0	0	0	21
Spanish	1	0	0	0	0	0	1	0	0	0	0	0	2
College Total	60	25	42	24	49	25	36	23	2	25	0	0	311
Nursing (Non-Degree)	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursing AA	1	1	2	0	1	0	0	1	0	0	0	0	6
Nursing	0	0	1	1	1	0	1	1	2	0	0	0	7
College Total	1	1	3	1	2	0	1	2	2	0	0	0	13
Sciences (Non-Degree)	0	0	0	0	0	0	0	0	0	6	0	0	6
Biochemistry	3	3	9	1	8	6	4	1	0	6	7	0	48
Botany	1	0	1	0	2	1	0	0	0	5	0	0	10
Chemistry (BA)	0	0	1	0	2	0	1	0	0	0	0	1	5
Chemistry	9	5	3	1	3	1	6	5	0	13	15	0	61
Geology (BA)	1	0	0	0	1	0	2	1	0	0	0	0	5
Geology	2	0	4	1	3	2	2	1	0	0	0	0	15
Mathematics (BA)	2	0	1	0	1	0	2	0	0	0	0	0	6
Mathematics	40	5	18	4	16	8	19	8	0	36	7	0	161
Medical Technology	2	1	0	0	2	0	2	0	0	0	0	0	7
Microbiology	4	3	20	2	17	9	13	11	0	19	0	1	99
Physics (BA)	1	0	0	0	2	0	0	0	0	0	0	0	3
Physics	4	2	5	0	6	4	7	1	1	15	10	1	56
Pre-Dentistry	2	0	3	1	0	0	0	0	0	0	0	0	6
Pre-Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-Medicine Core	38	4	4	0	2	0	1	1	0	0	0	0	50
Pre-Pharmacy	4	3	8	0	0	0	0	0	0	0	0	0	15
Pre-Physical Therapy	1	1	1	1	0	0	0	0	0	0	0	0	4
Zoology	12	1	13	5	11	8	15	9	0	12	17	0	103
College Total	126	28	91	16	76	39	74	38	1	112	56	3	660

Male Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
 Page Five

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
For & Rec Res (Non-Degree)	0	0	0	0	0	0	0	0	0	1	0	0	1
Forest Management	23	7	21	4	8	13	10	36	1	22	0	0	145
Recreation and Park Adm	27	11	24	26	30	23	36	30	0	16	0	0	223
Wood Utilization	1	3	2	2	3	0	3	2	0	0	0	0	16
College Total	51	21	47	32	41	36	49	68	1	39	0	0	385
Non-Degree	17	0	0	0	0	0	0	1	13	0	0	5	36
College Total	17	0	0	0	0	0	0	1	13	0	0	5	36
UNIVERSITY TOTAL	1251	400	921	409	809	494	701	591	53	758	158	9	6554

Female Enrollment by Courses and Academic Classification

Clemson University
First Semester 1979-1980

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Agriculture (Non-Degree)	0	0	0	0	0	0	0	0	0	3	0	0	3
Agriculture	1	0	1	0	1	0	1	1	0	0	0	0	5
Agricultural Economics	1	1	1	1	2	0	2	2	0	5	0	0	15
Agricultural Engineering	3	0	1	0	0	0	1	2	0	0	0	0	7
Agric Mech and Business	0	1	0	0	0	0	0	0	0	0	0	0	1
Agronomy	1	0	0	2	2	0	1	1	0	2	0	0	9
Animal & Food Industries	0	0	0	0	0	0	0	0	0	7	0	0	7
Animal Industries	1	0	0	0	0	0	1	0	0	0	0	0	2
Animal Physiology	0	0	0	0	0	0	0	0	0	0	3	0	3
Animal Science	18	3	8	2	11	2	7	5	0	1	0	0	57
Applied Economics	0	0	0	0	0	0	0	0	0	0	4	0	4
Community & Rural Development	1	0	1	0	0	0	1	3	0	0	0	0	6
Dairy Science	6	1	3	0	2	1	0	1	0	1	0	0	15
Economic Biology	1	0	3	0	1	0	1	0	0	0	0	0	6
Economic Zoology	2	1	3	0	4	1	9	2	0	0	0	0	22
Entomology	0	0	0	0	1	3	1	0	0	4	3	0	12
Food Science	5	1	2	2	6	2	2	0	0	0	0	0	20
Horticulture	12	2	12	6	12	9	15	12	2	8	0	0	90
Nutrition	0	0	0	0	0	0	0	0	0	15	4	0	19
Plant Pathology	0	0	0	0	0	0	0	0	0	4	0	0	4
Plant Physiology	0	0	0	0	0	0	0	0	0	2	2	0	2
Plant Science	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry Science	1	0	4	0	1	0	1	1	0	2	0	0	10
Wildlife Biology	0	0	0	0	0	0	0	0	0	3	0	0	3
College Total	53	10	39	13	43	18	43	30	2	55	16	0	322
Architecture (Non-Degree)	0	0	0	0	0	0	0	0	0	1	0	0	1
Architecture	2	1	0	0	1	0	0	0	0	6	0	0	10
Building Science	2	0	1	1	1	0	0	0	0	0	0	0	5
City and Regional Planning	0	0	0	0	0	0	0	0	0	12	0	0	12
Design (BA)	11	1	3	1	3	0	6	1	1	0	0	0	27
Design	10	2	6	1	7	3	4	0	0	0	0	0	33
Visual Studies	0	0	0	0	0	0	0	0	0	4	0	0	4
College Total	25	4	10	3	12	3	10	1	1	23	0	0	92

Female Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
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Major Course	Freshman		Sophomore		Junior		Senior		Post Grad	Mast	PhD	Uncl	Total
	(Semester) 1st	(Semester) 2nd	(Semester) 1st	(Semester) 2nd	(Semester) 1st	(Semester) 2nd	(Semester) 1st	(Semester) 2nd					
Education (Non-Degree)	0	0	0	0	0	0	0	0	0	108	0	0	108
Education	0	0	0	2	1	0	0	1	0	0	0	0	4
Administration and Supervision	0	0	0	0	0	0	0	0	0	19	0	0	19
Agricultural Education	1	0	0	0	1	0	0	1	1	1	0	0	5
Early Childhood Education	28	6	23	7	33	13	28	16	0	0	0	0	154
Elementary Education	58	15	55	20	56	26	64	27	2	111	0	0	434
Industrial Education	1	0	1	4	3	0	0	2	0	2	0	0	13
Industrial Education (Ind Art)	1	1	3	1	3	1	1	0	0	0	0	0	11
Industrial Education (Indust)	0	0	0	0	3	0	2	0	0	0	0	0	5
Industrial Education (Voc-Tec)	2	0	0	1	0	0	0	0	0	0	0	0	3
Personnel Services	0	0	0	0	0	0	0	0	0	92	0	0	92
Reading	0	0	0	0	0	0	0	0	0	49	0	0	49
Science Teaching	0	0	0	0	2	1	0	0	0	0	0	0	3
Science Teaching (Biol Sci)	1	2	5	0	4	0	4	2	0	0	0	0	18
Science Teaching (Chemistry)	0	1	1	1	0	0	0	0	0	0	0	0	3
Science Teaching (Earth Sci)	0	0	2	0	0	1	1	0	0	0	0	0	4
Science Teaching (Mathematics)	2	0	1	0	2	1	2	2	0	0	0	0	10
Science Teaching (Physical Sci)	0	0	0	1	1	0	4	0	0	0	0	0	6
Secondary Education	1	1	5	2	0	1	8	2	2	0	0	0	22
Secondary Education (Econ)	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Education (English)	5	0	6	1	8	9	3	6	1	8	0	0	47
Secondary Education (History)	3	0	1	0	4	1	2	0	0	3	0	0	14
Secondary Education (Math)	5	0	9	2	4	1	2	1	0	5	0	0	29
Secondary Education (French)	0	0	1	0	0	0	0	1	0	0	0	0	2
Secondary Education (German)	0	0	0	0	0	0	0	1	0	0	0	0	1
Secondary Education (Spanish)	1	0	0	0	1	0	0	0	0	0	0	0	2
Secondary Education (Nat Sci)	2	0	0	0	1	1	2	1	0	7	0	0	14
Secondary Education (Pol Sci)	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Education (Psych)	0	1	1	1	4	0	0	2	0	0	0	0	9
Secondary Education (Soc)	0	0	0	0	0	0	0	0	0	0	0	0	0
College Total	111	27	114	43	131	56	123	65	6	405	0	0	1081

Female Enrollment by Courses and Academic Classification
Clemson University
First Semester
Page Three

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Engineering (Non-Degree)	0	0	0	0	0	0	0	0	0	1	0	0	1
Engineering	7	1	1	0	0	0	1	0	0	0	0	0	10
Bio-Engineering	0	0	0	0	0	0	0	0	0	1	1	0	2
Ceramic Engineering	9	1	3	0	2	1	0	1	0	0	0	0	17
Chemical Engineering	29	0	10	4	7	4	4	4	0	0	0	0	62
Civil Engineering	16	3	12	4	9	6	4	4	0	1	1	0	60
Electrical Engineering	20	3	11	5	5	6	0	1	3	2	1	0	57
Engineering Analysis	1	0	0	0	1	0	0	1	0	0	0	0	3
Engineering Mechanics	0	0	0	0	0	0	0	0	0	1	0	0	1
Engineering Technology	7	0	2	3	4	2	0	1	0	0	0	0	19
Environmental Systems Engr	0	0	0	0	0	0	0	0	0	3	0	0	3
Materials Engineering	0	0	0	0	0	0	0	0	0	1	0	0	1
Mechanical Engineering	6	0	2	1	4	2	2	1	0	0	0	0	18
Systems Engineering	0	0	0	0	0	0	0	0	0	3	0	0	3
Water Resources Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0
College Total	95	8	41	17	32	21	11	13	3	13	3	0	257
I M and T S (Non-Degree)	0	0	0	0	0	0	0	0	0	4	0	0	4
Accounting	51	3	41	14	23	7	12	8	1	0	0	0	160
Administrative Management	75	20	74	22	56	12	37	21	1	0	0	1	319
Economics (BA)	3	2	4	2	4	2	2	1	0	0	0	0	20
Economics	1	0	3	3	8	1	7	1	0	3	0	0	27
Engineering Management	0	0	0	0	0	0	0	0	0	0	4	0	4
Financial Management	67	11	42	7	31	7	22	4	0	0	0	0	191
Industrial Management	7	3	13	2	7	2	2	1	0	0	0	0	37
Management	0	0	0	0	0	0	0	0	0	9	0	0	9
Management Science	0	0	0	0	0	0	0	0	0	0	1	0	1
Textile and Polymer Science	0	0	0	0	0	0	0	0	0	0	1	0	1
Textile Chemistry	2	0	1	1	1	0	1	0	0	1	0	0	7
Textile Science	1	0	1	0	1	0	0	0	0	3	0	0	6
Textile Technology	0	1	2	0	5	2	2	0	0	0	0	0	12
College Total	207	40	181	51	136	33	85	36	2	20	6	1	798

Female Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
 Page Four

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
Liberal Arts (Non-Degree)	0	0	0	0	0	0	0	0	0	1	0	0	1
Liberal Arts	23	3	7	0	2	0	0	0	0	0	0	0	35
English	28	9	24	4	20	6	13	9	0	14	0	1	128
French	7	1	3	0	7	2	1	3	0	0	0	0	24
German	1	0	1	0	2	0	0	0	0	0	0	0	4
History	8	3	4	3	4	5	1	0	0	6	0	0	34
Political Science	15	3	7	3	10	3	15	3	0	0	0	1	60
Psychology	36	3	34	3	25	9	16	12	0	0	0	0	138
Sociology	11	4	13	3	15	9	11	8	0	0	0	0	74
Spanish	3	0	3	1	3	1	3	2	0	0	0	0	16
College Total	132	26	96	17	88	35	60	37	0	21	0	2	514
Nursing (Non-Degree)	1	0	0	0	0	0	0	0	0	1	0	0	2
Nursing AA	33	5	25	8	6	3	0	5	0	0	0	0	85
Nursing	68	16	56	11	45	24	66	17	4	14	0	0	321
College Total	102	21	81	19	51	27	66	22	4	15	0	0	408
Sciences (Non-Degree)	0	0	0	0	0	0	0	0	0	7	0	0	7
Biochemistry	9	0	2	2	5	0	1	0	0	7	3	0	29
Botany	3	2	2	1	1	3	0	1	0	8	0	0	21
Chemistry (BA)	0	0	0	0	0	0	0	1	0	0	0	0	1
Chemistry	8	0	1	1	5	0	2	1	0	3	2	0	23
Geology (BA)	0	0	0	1	1	0	0	0	0	0	0	0	2
Geology	1	2	2	1	1	0	1	0	0	0	0	0	8
Mathematics (BA)	5	3	7	0	3	0	4	0	0	0	0	0	22
Mathematics	53	8	34	5	23	4	9	4	0	22	1	0	163
Medical Technology	17	1	6	2	8	0	5	0	0	0	0	0	39
Microbiology	13	2	8	5	4	8	6	6	0	6	0	0	58
Physics (BA)	0	0	0	0	0	0	0	0	0	0	0	0	0
Physics	0	0	0	0	0	0	0	3	0	3	0	0	6
Pre-Dentistry	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-Medicine Core	29	2	2	0	0	0	0	0	1	0	0	0	34
Pre-Pharmacy	17	0	8	0	1	0	0	0	0	0	0	0	26
Pre-Physical Therapy	18	3	18	0	3	1	0	0	0	0	0	0	43
Zoology	12	4	17	4	10	1	8	3	0	8	5	0	72
College Total	185	27	107	22	65	17	36	19	1	64	11	0	554

Female Enrollment by Courses and Academic Classification
 Clemson University
 First Semester
 Page Five

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Post Grad	Mast	PhD	Uncl	Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd					
For & Rec Res (Non-Degree)	0	0	0	0	0	0	0	0	0	2	0	0	2
Forest Management	9	2	3	3	3	3	3	3	0	1	0	0	30
Recreation and Park Adm	20	11	23	10	33	13	35	11	0	6	0	0	162
Wood Utilization	0	0	0	0	2	0	0	0	0	0	0	0	2
College Total	29	13	26	13	38	16	38	14	0	9	0	0	196
Non-Degree	23	1	0	0	0	0	0	0	13	0	0	4	41
College Total	23	1	0	0	0	0	0	0	13	0	0	4	41
UNIVERSITY TOTAL	962	177	695	198	596	226	472	237	32	625	36	7	4263

C L E M S O N U N I V E R S I T Y

FACULTY SALARY REPORT - FALL SEMESTER 1979-80

(Nine-Month Basis)

This Report Includes:

College-wide Maximum, Minimum, Median, and Average Salaries,
by Sex, for Professors, Associate Professors, Assistant
Professors, and Instructors;

University-wide Maximum, Minimum, Median, and Average Salaries
for Above Ranks;

Maximum, Minimum, Median, and Average Salaries, by Sex, for
Professional Librarians.

Note: For occupancy classes containing less
than five members, no information is
given other than the number in the class.
This number is shown in parentheses but
is not included in the faculty totals.
Part-time and Visiting faculty have been
excluded.

Office of the Vice President for Academic Affairs

and

Dean of the University

10/30/79

1979-80
(9-Month Basis)

PROFESSORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
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M A L E

AGRI SCIENCES	82	32,871	21,259	27,403	27,467
ARCHITECTURE	14	33,200	25,520	28,630	28,918
EDUCATION	15	31,018	22,079	26,953	26,990
ENGINEERING	38	38,726	23,537	29,935	30,253
FOR & REC RES	14	33,511	23,197	26,889	27,631
IM & TS	22	36,500	23,200	29,600	29,766
LIBERAL ARTS	9	37,400	23,000	27,000	29,727
SCIENCES	50	38,450	24,517	29,175	29,611

F E M A L E

AGRI SCIENCES	(2)
EDUCATION	(2)
IM & TS	(1)
NURSING	(1)
SCIENCES	(2)

T O T A L

244	38,726	21,259	28,630	28,694
(8)				

ASSOCIATE PROFESSORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
M A L E					
AGRI SCIENCES	67	28,447	16,538	21,656	21,623
ARCHITECTURE	15	30,100	21,800	25,000	25,073
EDUCATION	14	25,000	20,555	22,006	22,310
ENGINEERING	46	30,691	18,701	23,643	23,885
FOR & REC RES	13	25,382	20,973	22,625	22,821
IM & TS	19	28,166	19,890	25,840	25,272
LIBERAL ARTS	33	25,000	17,325	21,675	21,782
SCIENCES	40	27,100	17,906	22,500	22,733
F E M A L E					
ACADEMIC AFFAIRS	(1)				
AGRI SCIENCES	5	21,840	18,613	20,335	20,376
ARCHITECTURE	(1)				
EDUCATION	(2)				
FOR & REC RES	(1)				
IM & TS	(2)				
LIBERAL ARTS	(2)				
NURSING	(3)				
SCIENCES	5	22,966	21,000	22,229	22,080
T O T A L					
	257 (12)	30,691	16,538	22,500	22,775

ASSISTANT PROFESSORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
M A L E					
AGRI SCIENCES	46	22,315	16,718	18,814	18,923
ARCHITECTURE	5	18,900	16,700	18,500	18,146
EDUCATION	5	20,527	18,000	19,486	19,405
ENGINEERING	11	22,181	18,900	19,642	19,930
FOR & REC RES	9	19,600	16,319	17,826	18,155
IM & TS	24	22,950	14,896	20,500	19,956
LIBERAL ARTS	43	19,600	14,000	17,000	16,885
NURSING	(1)				
SCIENCES	23	21,740	15,500	18,498	18,019
F E M A L E					
AGRI SCIENCES	8	19,488	15,951	18,814	18,343
ARCHITECTURE	(1)				
EDUCATION	(4)				
FOR & REC RES	(1)				
IM & TS	(1)				
LIBERAL ARTS	16	21,500	14,300	16,750	17,213
NURSING	12	24,445	16,977	19,819	20,035
SCIENCES	5	18,860	16,750	17,850	17,889
T O T A L					
	207 (8)	24,445	14,000	18,509	18,416

INSTRUCTORS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
M A L E					
AGRI SCIENCES	13	16,948	12,103	15,542	15,364
ARCHITECTURE	(2)				
EDUCATION	(2)				
FOR & REC RES	5	18,478	13,906	17,505	16,801
IM & TS	5	17,684	14,923	17,000	16,345
LIBERAL ARTS	11	18,550	10,500	14,750	13,995
SCIENCES	(2)				
F E M A L E					
AGRI SCIENCES	(4)				
EDUCATION	(1)				
ENGINEERING	(1)				
FOR & REC RES	(1)				
IM & TS	(2)				
LIBERAL ARTS	9	16,000	10,500	11,000	11,633
NURSING	16	16,376	13,000	14,872	14,675
SCIENCES	(4)				
T O T A L					
	59 (19)	18,550	10,500	14,969	14,557

1979-80
(9-Month Basis)

LIBRARIANS

COLLEGE	FACULTY #	MAXIMUM \$	MINIMUM \$	MEDIAN \$	AVERAGE \$
M A L E					
LIBRARY	5	17,178	14,315	15,951	15,791
F E M A L E					
LIBRARY	7	17,848	14,969	16,360	16,292
T O T A L					
	12	17,848	14,315	15,971	16,083

MINUTES OF THE FACULTY SENATE

September 18, 1979

Senate Chamber

1. Call to Order

The meeting was called to order by President Fleming at 3:33 p.m.

2. Approval of Minutes

The Minutes for August 28, 1979 were approved as written.

The rules were suspended for two brief presentations:

- 1) Dr. Richard J. Calhoun, Alumni Professor of English, read a tribute to the late Dean Claud B. Green. The Senate unanimously accepted it and voted to send a copy to Dean Green's family. (See Attachment A).
- 2) Senator Thompson rose to pay tribute to Senators West, Gray and Ham for their help in preparing for the August barbeque. Special recognition was given to Dr. Steve Lytle for his efforts, and a gift was presented to him by President Fleming.

3. Committee Reports

A) Admissions and Scholarship:

Admissions and Scholarship Committee Report

The Committee met on September 4 at 3:30 p.m. in 411 Strode Tower. We decided to restrict our agenda this year to three areas: (1) the draft of proposals for a new Admissions policy, (2) a study of the advising system, including the suggestion of a Tenth College or College of General Studies with a core curriculum for first-year students, (3) the problem of grade inflation. We agreed that our highest priority is the Admissions problem. We had a lengthy, preliminary discussion of the Admissions policy and, although we do not wish to be more specific at this point, agreed that it needs to be rewritten. The present policy, as stated in the University Bulletin and the Student Handbook, is outdated and not very clearly stated and does not, it appears, reflect the actual admissions procedures. We will set a date at our next meeting for a draft of our admissions proposals; tentatively, however, we hope to present the Senate with a final draft in January. Dean Vickery and Mr. Mattox will appear at our next meeting on October 2 to give us the administrative angle on Admissions. We are aiming at a realistic document: one which takes into consideration present needs and future projections, genuine academic considerations, Clemson's high standards and responsibility as a State institution; one that is also workable administratively. We welcome any ideas individual Faculty Senators may have concerning Admissions needs, either in writing or at our meetings.

We will introduce under New Business a joint-resolution with the Student Senate for the creation of an ad hoc committee to study the present advising system and make recommendations for its improvement and to examine the advisability of a Tenth College concept at Clemson. This committee will be chaired by Jim Kimbell; its members will consist of two students representing the Student Senate, Roger Rollin, Jim Hite, and Corrine Sawyer. It is expected that the committee will present

separate reports on each item and that the report on the advising situation will take precedence over the other, as it is a more pressing problem and does not involve curriculum or administrative changes within the University.

Finally, as a matter of information, the Undergraduate Council recently passed a resolution that shortens the class withdrawal period from ten weeks to six weeks. This represents a compromise between the Faculty Senate's position of four weeks and that of eight weeks favored by many members of last year's Undergraduate Council. This compromise was reached in discussions between the Admissions and Scholarship Committee and the Undergraduate Council last February. Dean Reel has asked us to prepare in writing an explanation of the motives behind our resolution requesting a shorter drop period. This will be submitted to the Council of Deans, which will decide on the matter in November. Dan Edie, who introduced the original resolution, has agreed to do this.

The next meeting of the Admissions and Scholarship Committee will be on October 2 at 3:30 p.m. in 411 Strode Tower. It is imperative that all members attend since we will begin work on the Admissions policy.

Respectfully submitted,

Alan Grubb, Chairman

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B) Policy:

September 18, 1979

Memorandum

To: Faculty Senate
From: Policy Committee
W. E. West, Chairman
Subject: Policy Committee Report

1. The Faculty Senate Policy Committee met on Tuesday, September 4, 1979 at 3:00 p.m. The following Senators were present: H. W. Webb, G. H. Worm, R. B. Rollin, M. A. Armistead, P. S. Snipes, and W. E. West.
2. The committee reviewed the forms that Dean Hurst had accepted for the 1979-80 Faculty Evaluation process. The printed forms are scheduled for use in late September and early October of this year.
3. The policy committee discussed the current status of the Faculty Constitution. The chairman was directed to discuss with the Senate President the need for a balance of faculty and administrators on the proposed committee, and that the committee have a written charge that would guide the committee's consideration of the proposed constitution.
4. The committee is beginning inquiry into two areas of concern:
 - a. Current policy/evolving policy dealing with the appointment of Adjunct Professors/Associate Professors

- b. Current policy dealing with tenurable positions and the evolving needs of the University
- 5. The Policy Committee will meet on September 26, 1979 at 3:30 p.m. in the Reading Room of Freeman Hall.

Senator Rollin asked whether the latest Committee on the Faculty Constitution had been formed. Senator West had no word as yet, but assured the Senate that President Atchley did desire that the Policy Committee come up with a structure for such a committee in the near future.

- C) Research: No report.
- D) Welfare: Senator Baron announced his intention to present a proposal on a new Commencement format under New Business. He reported that the salary survey was now completed and had been distributed to members of the Advisory Committee. In view of the fact that there is some confusion over the data displayed therein, the Welfare Committee will study the survey some more. Senator Baron also indicated that the issue of the Summer School's place in the University's program will be studied in the near future. The Committee will meet with Mr. Gentry on Tuesday, September 25th to discuss the University Retirement Policy. The Committee is also concerned about funding the President of the Faculty Senate during the summer months. Finally, it was noted that the Welfare Committee will study the rights and privileges of Emeritus faculty.
- E) Ad Hoc Committees: No report.
- F) University Councils and Committees: Senator Baron reported on the September 7, 1979 meeting of the Undergraduate Council in three particulars: (1) The student drop period was approved at six weeks before the end of the semester (a compromise with the eight-week suggestion of the Faculty Senate); (2) the Faculty Senate Resolution FS-79-3-4 (see Attachment B) will be studied at the next meeting; and (3) the Student Senate Teacher Evaluation Proposal, R-78-79-52 (see Attachment C) was tabled. Senator Baron expressed concern over the poor construction of the student proposal and suggested that the Faculty Senate should get a student-teacher evaluation proposal of its own fairly soon. Senator Howard felt that we could afford to wait because there is too much new material for department heads to handle already. Baron reiterated that his concern was to get a faculty-approved proposal before the Undergraduate Council lest we be pre-empted.

4. President's Report:

- 1. President Atchley has completely and unequivocally rescinded the requirement that faculty employed by Clemson University before July 1, 1979 furnish transcripts verifying the degrees which they hold. Other documentary evidence of degrees will suffice. Faculty who joined or will join Clemson University after July 1, 1979 will be required to provide transcripts of all work completed and degrees awarded.

2. President Atchley is constituting a committee to recommend to him a successor to Dean Hurst, who will retire July 1, 1980. The committee will consist of the Dean of Agricultural Sciences, the Dean of Engineering and members of the Faculty Senate. President Atchley would like to have one undergraduate and one graduate student to serve with the committee. We have been asked to provide Dr. Atchley with either three or five members of the Senate to serve on the committee. We will take up this matter under New Business. The committee, once appointed and assembled, will elect their own chairperson and will be assisted as necessary throughout the search and selection processes by staff in the President's Office.
3. The inauguration of President Atchley has been set for April 18, 1980. An inaugural committee has been appointed to plan for the event. Vice President Stassen Thompson will serve on the committee, along with Acting Dean of Undergraduate Studies J. V. Reel (chairman), Dean Hurst, the University Marshal, President of the Student Body, President of the Graduate Students' Association, a member of the Board of Trustees and the President of the Alumni National Council.
4. Senator Coulter and I--with Dean Hurst, Drs. Godley and O'Dell--visited the Sandhill and Pee Dee Experiment Stations, September 4-5. Senator Coulter will present our report during the meeting.
5. The August Senate meeting and barbeque were tremendous successes. President Atchley and Dean Hurst have asked me to convey their thanks to the Senate for the hospitality and opportunity to spend the time with us. I want to thank those who worked so hard to bring off the barbeque: Stassen Thompson, Bill West, Don Ham, and Gordon Gray. Special thanks are due Steve Lytle for volunteering his expertise in chicken basting.
6. On several occasions during the past month, Dean Hurst, Dr. Reel, Ms. Beulah Cheney (University Publications Editor) and I have met to discuss ways in which University communications can be facilitated, especially internal communications. The result of our discussions is a proposal which has been presented to Dean Hurst and the Council of Academic Deans, a summary of which is appended here. I believe that the proposals will serve the Senate especially well in our effort to communicate efficiently with faculty, making it possible to inform our colleagues within a matter of two days or less about matters covered at each meeting. I will have more to say about the direction of our thinking during the meeting.
7. I have met twice thus far with the President's Cabinet. I have been very pleased with the opportunity I have been given to contribute on behalf of the faculty to on-going discussions at that level.
8. At the September 17, 1979 meeting of the Council of Academic Deans, Acting Dean J. V. Reel proposed that classes be suspended during the hours of the inauguration ceremony on Friday, April 18, 1980. Following the Council's approval of the class suspension, Dr. Reel requested that I bring the matter before the Faculty Senate for the Senate's opinion, which I will do under New Business.

9. Because of Hurricane David, our earlier trip to the Experiment Stations was cut short. We were unable to visit the Edisto and Coastal Stations. Subsequent efforts to reschedule these visits during the current semester have met with little success; a number of conflicts have arisen. Therefore, we will visit the Edisto and Coastal Stations early next semester.
10. Dean Hurst is in the process of arranging a series of luncheon meetings between President Atchley and department heads. These will be set up on a college-wide basis--i.e., all the heads in Forest and Recreation Resources, followed by all the heads in Sciences, etc., with the meetings held in reverse order of size (from the smallest college to the largest).
11. A committee has been established by President Atchley to study the Clemson House/Highway 93 crosswalk problem. J. L. Strom, Director of Planning and Corporate Relations, Office of Development, will chair the committee. During the summer, additional improvements were made to the crosswalk, but additional studies and actions may be necessary to alleviate existing safety problems. Please contact Dr. Strom if you have comments.
12. The Advisory Committee met Thursday, September 13, 1979:
 - a. The Committee received copies of the faculty salary survey compiled by the Office of Budgets and Systems. (Additional copies will be made available by Dean Hurst's Office to all departments so that interested faculty members can see the results; the costs of printing the document have dictated such limited distribution of it for the present.) I urge you and all our colleagues to examine the report closely. If you find errors, problems with the format, etc., or have suggestions for improvement of the methodology, please send me a memorandum. After collecting your comments, I will compile them in a subsequent memorandum for Mr. Hickman and his staff for their consideration prior to next year's replication of the survey.
 - b. The Committee discussed the search/selection committee to be established by President Atchley for Dean of the University. The Committee directed me to seek more details from President Atchley about the membership of the search committee, which I have now done.
 - c. The Committee again directed me to discuss with President Atchley the continuing confusion over the transcript requirement. The result of my meeting with President Atchley is summarized in item 1, above.
 - d. The Committee set a time and place for hearing of an appeal brought under Regulations, Sections 8 and 9 of the Faculty Manual (pp 37-38) by a faculty member who has been dismissed from employment by the University.
 - e. The Committee decided to invite Mr. Bob Fuzy, President of the Student Body, and Mr. Jeff Anderson, President of the Student Senate, to address the Faculty Senate at our October 16, 1979 meeting. (Messrs. Fuzy and Anderson since have accepted our invitation.)

13. The Faculty Senate will be featured in the next issue of The Clemson World.

Respectfully submitted,

H. W. Fleming

With regard to item 6, President Fleming noted that the Faculty Senate Minutes will no longer be printed in the Newsletter, but they will be bound and kept in departmental offices. (Senators will still receive draft copies for approval). Instead, periodic and up-to-date alert bulletins will be issued to each department and agency summarizing Faculty Senate activities, resolutions, and opinions, along with other items of information from the administration. This system could be in place by November. Senator Rollin asked why the bulletins couldn't be sent to each faculty member instead of simply to the departments. President Fleming suggested that the matter be considered under New Business.

5. Old Business: Reports on Faculty Senate Committee counterparts with administrators will be published in the Minutes as they become available.
6. New Business: Senator Baron submitted FS-79-9-2 for consideration. Several minor friendly amendments were accepted. The resolution was moved and seconded.

FACULTY SENATE RESOLUTION
RECOMMENDATIONS FOR THE COMMENCEMENT EXERCISES
FS-79-9-2, September 18, 1979

Commencement exercises should be a high point in the student's career at Clemson, not merely the last point. They should also recall to all present the purpose for which the University exists.

To achieve those ends, the Commencement program should continue to center on the graduates so as to demonstrate to them, their families, and all interested observers the importance of Clemson's mission to educate students. Of equal importance, the ceremonies, by reflecting the best traditions of higher education in America, should demonstrate to students, alumni and friends the University's mission to increase knowledge and to disseminate it for the betterment of humanity.

These aims are best achieved by dignified ceremonies that honor the achievements of the graduates and remind the audience of the continuing role of the University in the life of the state and nation.

To accomplish these aims the Faculty Senate recommends the adoption of the following two-part graduation ceremony:

University Ceremony:

1. Processional - President's party, faculty, students
2. Invocation
3. President's remarks
4. Distinguished Speaker

5. Conferring of Degrees by College Deans
6. Awarding of Honorary Degrees
7. Special Awards
8. Benediction
9. Recessional - President's party, faculty

College Ceremony:

The graduates, faculty and dean of each college will reconvene for individual college ceremonies at which diplomas will be individually awarded. Each college will organize its own program for awarding diplomas and recognizing its graduates.

We recommend that the Spring Commencement be recognized as the principal graduation ceremony with appropriate emphasis given to this ceremony. However, we believe that if we are to continue to have December and August graduation exercises that these exercises must be similarly organized to provide a dignified occasion befitting the recognition we are according our graduates.

To provide appropriate balance and recognition for each of the commencement exercises, we recommend the following:

1. There will be faculty participation at each of the commencement exercises. A faculty member will attend one of the three graduation exercises every other year. Of the faculty participating in a given year, 80% will attend the May graduation with the remaining 20% equally divided between the December and August graduation ceremonies.
2. A member of the Board of Trustees should be invited to represent the Board at each commencement exercise.
3. An honorary degree or degrees will be awarded only at the May graduation subject to a policy to be established.
4. An invited commencement speaker will address the graduates at each graduation ceremony.

For the May graduation exercise a person from outside the University community shall be invited to give the commencement address. At the August graduation the President of the Faculty Senate shall deliver the commencement address. At the December graduation exercise the commencement address shall be given by the faculty member previously recognized as the outstanding teacher of the year.

We believe that the proposed graduation ceremonies will meet the objective previously cited. However, it must be understood that the expected dignity of the occasion can only be achieved if each and every participant conducts himself or herself in a manner befitting the occasion.

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A general debate ensued during which the following points were made:

- 1) The proceedings would begin in Jervey, but adequate facilities for separate college ceremonies are available.
- 2) Student input is not central to the issue because currently enrolled students have not yet suffered the vicissitudes of the more recent barbarities, and do not share the concerns of faculty members. Nevertheless, Senator Lambert has consulted with some student leaders, as President Atchley has proposed, and they indicated general support for the proposal.

- 3) There is some ambiguity as to which faculty will be required to attend what ceremonies, and who will enforce this. Further clarification is needed.

A motion to table was made by Senator Quisenberry and it was passed.

Senator Baron next sought the sense of the Senate concerning two proposals on Honorary Degrees: A - Grant one degree to the distinguished commencement speaker; or B - Grant one degree to the distinguished commencement speaker and multiple degrees to others who have served humanity. After several conflicting views were expressed and previous arcane policies of the University were described, it became apparent that there was no sense of the Senate as yet, and the proposal needed further clarification.

Senator Grubb submitted Resolution FS-79-9-1 and moved its adoption:

Resolution FS-79-9-1 (Original Version)

Whereas there is general agreement and common concern among students and faculty that the advising procedures presently used by many colleges and departments are inadequate and do not meet the needs of the students,

Whereas there are also additional difficulties imposed on students in having to declare early and immediately a major,

Be it resolved that a joint ad-hoc committee be established by the Student Senate and Faculty Senate to (1) study the present advising system and make recommendations for its improvement, (2) examine the feasibility and advisability of a College of General Studies or Tenth College concept, (3) submit separate reports, the first on advising no later than the October meeting of the Faculty Senate, the second on the Tenth College concept at a later date.

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He made the following observations: 1) There is already a move afoot by the Administration to change the advisement system; 2) The Admissions and Scholarship Committee has already consulted with the student leadership on this resolution; and 3) Since the Council of Deans will get the issue in November, we should move on it expeditiously.

President Fleming cautioned the Senate on being too easily pressured by University deadlines. Senator Baron then moved to separate the issues of advisement and the College of General Studies, raising questions about the need for the latter. After a general debate, the question was called. A majority approved the amendment to FS-79-9-1 as follows:

Resolution FS-79-9-1 (Amended Version)

Whereas there is general agreement and common concern among students and faculty that the advising procedures presently used by many colleges and departments are inadequate and do not meet the needs of the students,

Whereas there are also additional difficulties imposed on students in having to declare early and immediately a major,

Be it resolved that a joint ad-hoc committee be established by the Student Senate and Faculty Senate to 1) study the present advising system and make recommendations for its improvement, and 2) submit a report on advising no later than the October meeting of the Faculty Senate.

The resolution was called and approved unanimously. The remainder of the resolution (pertaining to the College of General Studies) now became FS-79-9-3. After a spirited debate, it was defeated.

Senator Baron then proposed the creation of an ad hoc committee to review and prepare guidelines for all University teacher evaluations. Concern was expressed over the lack of uniformity between departments as to what was being evaluated. Other Senators preferred the inconsistency feeling that more bureaucratic strait jackets were not desirable. The question was called and the proposal was defeated.

Senator Baron then proposed that the Admissions and Scholarship Committee undertake to study the current practices concerning freshmen registration which he feels is poorly handled, resulting in the warehousing of unwilling freshmen into "free-elective" courses which they know not of. The Committee agreed to study the issue.

President Fleming convened the Committee of the whole for the purpose of debating a salutary letter to Mr. W. Harry Durham and Mr. W. Kelly Durham. (See Attachment D). After due consideration, the Senate was called back into session and approved the letter unanimously. It will be sent by the President.

President Fleming next addressed Item 8 of the President's Report with regard to Dr. Reel's proposal to suspend classes during President Atchley's inauguration. A motion to endorse the proposal was made, seconded and passed unanimously.

President Fleming then explained Item 2 of the President's Report, noting that the Senate could provide five members to the Selection Committee for a new academic Vice President by several methods. Senator Snipes moved that the Senate elect from its membership five members from colleges other than Agriculture or Engineering. After brief discussion, the motion was approved.

Senator Snipes then moved that one graduate student and one undergraduate student be added to the committee as non-voting members. The motion was seconded. Senator Baron proposed an amendment to the motion which would allow the students to vote. Debate then centered around two points: 1) Are student votes harmful or constructive; and 2) would the addition of students on the committee be in violation of the Faculty Manual. Discomforted by the wide disparity of views and supplemental issues generated by his motion, Senator Snipes withdrew his original motion which made Senator Baron's amendment moot.

Undeterred by the preceding events, Senator Baron moved that the Selection Committee have one graduate and one undergraduate student as voting members. After further debate on the issues previously raised, the motion was defeated.

President Fleming then presided over the election of the five faculty Senators to the Selection Committee, noting that no one college should have more than one member on the Committee and that nominations should be made from the floor. Those elected were:

Dr. Horace Fleming (Liberal Arts)
 Dr. Bill West (Education)
 Ms. M. A. Kelly (Nursing)
 Dr. George Worm (IM & TS)
 Professor Joe Young (Architecture)

Senator Rollin requested that President Fleming work toward a mass distribution of the proposed Alert Bulletin. After some discussion of the point, President Fleming agreed to pursue the idea with the people concerned.

Senator Coulter presented a report of the recent inspection tour of the Clemson Experiment Stations (See Attachment E) calling attention to concerns expressed by teaching and research staff at the stations.

The meeting adjourned at 6:00 p.m.

Respectfully Submitted,

E. M. Coulter

Edwin M. Coulter,
Secretary

EMC/lm

Enclosures

Members Absent:

Agricultural Sciences: A. R. Mazur
S. G. Turnipseed

Forest & Recreation Resources: D. L. Ham

Industrial Management & Textile Science: G. H. Worm (Substitute present - T. W. Zimmerer)

Nursing: M. A. Kelly (Substitute present - Ms. Lynn Hall)

Sciences: H. F. Senter

A Tribute to Dean C. B. Green

Faculty Senate, September 18, 1979

As I am sure all of you are aware Claud Bethune Green, Dean of Undergraduate Studies at Clemson University, died on June 24, 1979, while recuperating from heart surgery. Dean Claud Green lived nearly all of his life in or near Clemson. He was born in Clayton, Georgia, on October 23, 1914, and maintained a home there, where on those rare occasions when he was able to escape

his duties at Clemson, he was a gracious host to many of his Clemson friends. I am told that a local paper there once referred to him as "the educated mountaineer." I can testify that his many friends thought of him as a Southern gentleman in the best denotations and connotations of that term. He attended the University of Georgia and received there his B.A. and his M.A. in English. He earned his Ph.D. from Duke University in American literature under a great scholar in that field, Jay B. Hubbell.

Claud Green listed his scholarly specialties as Southern American literature, and American literature of the 19th Century. He was a superb teacher, and his Southern literature course here at Clemson was one of the most popular literature courses taught at Clemson University. His former students always spoke of him, as all of us hope our students will speak of us, with respect, with fondness, and with gratitude for having been taught something humanly important. He was also a very good literary critic and meticulous scholar, a publishing teacher at Clemson even when few in Liberal Arts were expected to publish. He is the author of John Trotwood Moore: A Tennessee Man of Letters, published by the University of Georgia Press in 1957, and of many articles in the fields of Southern and American literature. He had a fine critical intelligence and a graceful style. Nothing that Claud Green wrote was dull, a claim that few of us could make. He was always professional: a well respected and active member of learned societies and professional organizations in his scholarly specialties. He was the first Clemson professor among recent faculty to read a paper at the Modern Language Association, served as an

officer in all his specialty groups at the South Atlantic Modern Language Association, and as President of the Southeastern American Studies Association, and he was a charter member of the Society for the Study of Southern Literature. He was appointed Senior Fulbright-Hays Lecturer in American literature at the Universities of Sydney and Adelaide, Australia, during 1956. Claud Green had the kind of professional visibility that brought credit to Clemson University. I remember well my major professor saying nineteen years ago when I was offered a job at Clemson, "It must be all right if Claud Green teaches there."

Claud Green served Clemson long and well from 1940-1979, both as a teacher and an administrator. He rose in ranks from Instructor to Professor of English from 1940 to 1953. He served as Director of Summer Sessions at Clemson from 1962-68, as Assistant Dean of the University from 1968-70, and Dean of Undergraduate Studies since 1970.

He was graceful in his writing style and in his life style, courteous, kind, compassionate, graced by a sense of humor. All of us who knew him will miss him. All of us who teach at Clemson University are in his debt.

Richard J. Calhoun

Alumni Professor of English

Calendar of Campus Events

NOVEMBER 15-30

- 15 -- Basketball: Athletes in Action (Men), Littlejohn Coliseum, 8 p.m.
- 15 -- Seminar: William A. McMinn, vice president of FMC Corp., leads a non-technical discussion on his company's role in the chemical industry. Sponsored by Distinguished Chemical Industry Business Seminar Series, 1:25 p.m. Earle Hall Auditorium, 4:30 p.m. 131 Brackett Hall. Open to the public, no admission charge.
- 15-16 -- Workshop: "Inventory Strategies." Sponsored by Professional Development Office, call 656-2200 for more information.
- 15 -- Table Tennis Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 15-17 -- Movie: "Frisco Kid." Sponsored by University Union, YMCA Theater, 6:45 and 9 p.m., \$1 admission charge.
- 16-17 -- Workshop: "Innovative Teaching/Learning Strategies." Sponsored by College of Nursing Continuing Education Department, call 656-3078 for more information.
- 16-17 -- Edgar's: "Kier Irmiter." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 16-17 -- Coffeehouse: "Jim Buch and Heidi." Sponsored by University Union, The Gutter, 9 p.m. University I.D. required, 50¢ donation requested.
- 17 -- Symposium: "Children's Literature Symposium." Sponsored by English Department and College of Liberal Arts, Daniel Auditorium, 8:30 a.m. until mid-afternoon. Open to adults working with children and children's literature, \$5 registration fee. Call 656-3151 for more information.
- 17 -- Day Trip to Stone Mountain. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 18 -- Free Flick: "Hunchback of Notre Dame." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 19 -- Concert: "Prague Chamber Orchestra" with piano soloist Hans Richter-Haaser. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by student use card, season tickets, or individual tickets on sale at gate.
- 19 -- Foosball Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 19-20 -- Movie: "Frisco Kid." Sponsored by University Union, YMCA Theater, 6:45 and 9 p.m., \$1 admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 19-22 -- Videotape: "NFL Follies." Sponsored by University Union, loggia, shown several times daily.
- 21 -- Thanksgiving holidays begin after last class.
- 22 -- Flights Home for Thanksgiving. Contact University Union Travel Center, 656-2461, for details.
- 26 -- Classes Resume.
- 26-12/7 -- Room Change Period. Submit application to the Housing Office from 8 a.m. until 4:30 p.m. weekdays.
- 26-12/12 -- Videotape: "Great American Heroes." Sponsored by University Union, loggia, shown several times daily.
- 26-30 -- Jewelry Sale by Joe Burger. Sponsored by University Union, outside Palmetto Room of Union.
- 26-28 -- Movie: "Eyes of Laura Mars." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 27 -- Billiards Tournament. Sponsored by University Union, Game Room of Union, 8 p.m.
- 27 -- Concert: "Ruth Cauble," pianist. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 27-30 -- Art Exhibition: "Architectural Thesis and Terminal Project Reviews." Daily reviews of projects representing culmination of five to six years of studies in the College of Architecture. Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m., open to the public, no admission charge.
- 28 -- Educational Film Series: "Commitment ot Safety" and "Is Anybody Listening?" Sponsored by University Union, Edgar's, noon. University I.D. and proof of age required, bar will be open.
- 28-29 -- Workshop: "Automated Drafting and Design." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 29-12/1 -- Movie: "Last Embrace." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 29 -- Workshop: "Respiratory Care Nursing" for licensed practical nurses. Sponsored by College of Nursing Continuing Education Department, call 656-3078 for more information.
- 29 -- Workshop: "Managing in an Inflationary and Uncertain Environment." Sponsored by Professional Development Office, call 656-2200 for more information.
- 30 -- Concert: "Son Seals Blues Band." Sponsored by University Union, Clemson House Ballroom, 8 p.m. Open to the public, ticket prices to be announced.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 30 -- Seminar: "Economic Implications of Coastal Zone Management" by Dr. H. Wayne Beam, executive director of South Carolina Coastal Council. Sponsored by Department of Agricultural Economics and Rural Sociology, P&AS Auditorium, 2 p.m. Open to the public, no admission charge.
- 30-12/1 -- Basketball: IPTAY Invitational Tournament (Men), Littlejohn Coliseum, 7 and 9 p.m. each night.
- 30-12/1 -- Edgar's: "Allan Damron." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.

DECEMBER 1-14

- 2 -- Free Flick: "The Graduate." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 3-14 -- Art Exhibition: "MFA Thesis Reviews." Work representing the culmination of two to three years of graduate studies in the Department of History and Visual Studies in the College of Architecture. Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. Monday - Friday, 2 - 5 p.m. Sunday. Open to the public, no admission charge.
- 4-5 -- Shortcourse: "The Theory and Practice of Fabric Preparation." Sponsored by Professional Development Office, call 656-2200 for more information.
- 5 -- Basketball: USC (women), Littlejohn Coliseum, 6:45 p.m.
- 5 -- Basketball: USC (men), Littlejohn Coliseum, 9 p.m.
- 5 -- Workshop: "Endocrine and Metabolic Emergencies." Sponsored by College of Nursing Continuing Education Department, call 656-3078 for more information.
- 5-7 -- Shortcourse: "Basic Management Processes for the Newly-Appointed Manager." Sponsored by Professional Development Office, call 656-2200 for more information.
- 5-6 -- Art Sale. Original art work done by students and faculty in the College of Architecture. Rudolph E. Lee Gallery, 6 - 8 p.m. December 5, 9 a.m. - 5 p.m. December 6. Open to the public, no admission charge.
- 5-7 -- Shortcourse: "Current Technology in Carding and Sliver Preparation." Sponsored by Professional Development Office, call 656-2200 for more information.
- 6 -- Concert: Clemson University Chorus Christmas Concert. Sponsored by Music Department, Clemson First Baptist Church, 8 p.m. Open to the public, no admission charge.
- 8 -- Basketball: Berry College (women), Littlejohn Coliseum, 11:45 a.m.
- 8 -- Basketball: Baptist College (men), Littlejohn Coliseum, 2 p.m.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 10 -- Examinations begin.
- 10-11 -- Shortcourse: "Technical Sales." Sponsored by Professional Development Office, call 656-2200 for more information.
- 11-13 -- Shortcourse: "Foam Applications for Dyeing, Printing and Finishing." Sponsored by Professional Development Office, call 656-2200 for more information.
- 12 -- Shortcourse: "Names and Faces." Sponsored by Professional Development Office, call 656-2200 for more information.
- 12-13 -- Conference: "6th Annual Dairymen's Conference." Sponsored by Dairy Science Department, Clemson House, registration 9 a.m. Dec. 12. Open to all interested persons, call 656-3230 for more information.
- 12 -- Shortcourse: "From Secretary to Administrative Assistant." Sponsored by Professional Development Office, call 656-2200 for more information.
- 13 -- Shortcourse: "Work Sampling." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 13-14 -- Shortcourse: "Preventing Poor Performance." Sponsored by Professional Development Office, call 656-2200 for more information.
- 13 -- Seminar: "Rural Transportation" by Dr. Andrew G. Jordan, manager of Marketing/Processing Technology, National Cotton Council of America. Sponsored by Department of Agricultural Economics and Rural Sociology, A-203 P&AS Building, 2 p.m. Open to the public, no admission charge.

WEPR Highlights

South Carolina Educational Radio Network programs produced at Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg, WMPR 88.1 FM, Sumter, and WSCI 89.3 FM, Charleston.

NOVEMBER

Weekdays -- MORNING EDITION, 6 a.m., a lighter version of NPR's ALL THINGS CONSIDERED, with South Carolina news and features contributed by the University of South Carolina, the Clemson University studios of WEPR, and the Charleston studios of WSCI.

P.M., 8 p.m., music and features with Jim Barnhill.

Mondays -- MAJORS AND MINORS ENCORES, 11 p.m., Ray Barfield.

Tuesdays -- A LITTLE NIGHT MUSIC, 10:30 p.m., Bill French.
(20,27)

Thursdays -- PLOTS AND PROLOGUES (on P.M.), 8 p.m., Dr. Jerry Reel and Jim Barnhill;
(15,22, a preview of the 1979-80 Metropolitan Opera Season.
29)

Fridays -- MAJORS AND MINORS, 3 p.m., Ray Barfield.
(16,23,
30)

WEPR HIGHLIGHTS (Cont.)

PLOTS AND PROLOGUES, 4:30 p.m.

Saturdays -- TILLMAN FORUM, 11 a.m., Poet Lloyd Van Brunt with Dr. Bob Hill in a
(17,24) series of readings/discussions.

CLEMSON SIDETRACK, 11 p.m., Henry Cook examines "Fleetwood Mac" and
"Joe Walsh."

Sundays -- PERFORMANCE, 9 p.m., the Greenville Symphony Orchestra and Greenville
(18, 25) Civic Chorale perform on the 18th and the Clemson Chamber Music Series
presents "Lexington Park String Ensemble" on the 25th.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY



Vol. 19 No. 8

December 1, 1979

COUNSELING CENTER OFFERS SEMINARS FOR FACULTY AND STAFF

The University Counseling Center is offering three seminars for faculty and staff members during the break between semesters. The seminars will be led by staff members of the Counseling Center and will be held in their new facility, a trailer across from Redfern Health Center.

A stress management seminar, introducing participants to techniques useful in coping more creatively and effectively with the stresses of modern life, will be offered in two sections: Dec. 18 and 20 from 1 to 2:30 p.m., and Jan. 3 and 4 from 9:30 to 11 a.m. Physical and cognitive coping skills will be covered as well as principles related to exercise, self-control and nutrition.

An assertiveness training seminar will teach participants to act in their own best interests, stand up for themselves without undue anxiety, and exercise their rights without denying the rights of others. It will be offered Dec. 17 and 19 from 9 a.m. to noon.

"Meeting Yourself Halfway--Meeting Others Halfway" is designed to help the participant understand himself/herself better while getting to know others. It will be offered in two sections: Dec. 19 from 1:15 to 4:15 p.m., and Jan. 3 from 8:30 to 11:30 a.m.

Call 656-2451 for additional information or to register. Enrollment will be limited to 15 participants for each group.

AGRICULTURAL SCIENCES

Clyde S. Gorsuch (Asst Prof) attended and participated in the 1979 Southeastern Professional Peach Workers Conference held in Southern Pines, NC, Oct. 30-31.

Prof. Gorsuch presented two talks, "Borer Problems in S.C." and "Insects of Peaches and Potential Scouting Techniques."

T. E. Skelton (Prof) has been invited to speak at a two-day symposium at the University of Georgia May 1-2, 1980. The symposium is part of a year-long program of seminars celebrating the 25th anniversary of the establishment of the Department of Entomology at the University of Georgia.

AGRONOMY AND SOILS

U. S. Jones (Prof) returned from the Phillipines the week of Oct. 15 to participate in the Oak Ridge National Laboratory Life Sciences Symposium on "Potential Environmental and Health Consequences of Atmospheric Sulfur Deposition." At the symposium he presented an invited paper, "The Impact of Atmospheric Sulfur Deposition on Agro-Ecosystems."

CHEMISTRY AND GEOLOGY

Adolph Byerlein (Prof), Nick Marullo (Prof), Keith McDowell (Assoc Prof) and Garth Spencer (Prof) attended a research conference sponsored by the Department of Defense in Washington, DC, Nov. 5-6.

Prof. McDowell presented a seminar at Bob Jones University Nov. 13 on "The History and Future of Theoretical Chemistry."

Prof. McDowell has published a paper, "A New Single-Center Perturbation Theory for the Treatment of Simple Hydrides," in Chem. Phys. Lett. 66, 423 (1979).

Muriel B. Bishop (Assoc Prof) was selected to participate in the NSF-Chautauqua Type Short Course, "Computers as an Aid in Learning Science," held at the University of Georgia. The Chautauqua Type Short

Courses are an annual series of forums in which invited scholars in various frontiers of science meet with undergraduate science teachers for two two-day sessions of intensive study. An interim period is used by the participants to develop materials utilizing the new techniques being studied.

CIVIL ENGINEERING

Subhash C. Anand (Prof) attended the International Conference on Computer Applications in Civil Engineering held at the University of Roorkee, Roorkee, India, Oct. 23-25. He presented a paper, "Substructuring and Mesh-Refinement in Computer Plastic Analysis," and was invited to chair a session on "Computer Applications to Problems in Structural Engineering." Travel expenses for this international conference were partially supported by an International Travel Grant from NSF and the McQueen Quattlebaum Award of the College of Engineering.

While in India, Prof. Anand also visited IIT, Delhi, where he presented a seminar on "Constitutive Relations and Solution Schemes in Elastic-Plastic Finite Element Analysis" to the faculty and graduate students in the Department of Applied Mechanics. In addition he toured the facilities of the Central Building Research Institute at Roorkee which are supported by the Indian Federal Government.

DAIRY SCIENCE

F. E. Pardue (Prof) participated in the 25th Annual 4-H Dairy Conference in Madison, WI. Five 4-H dairy delegates from South Carolina participated in this conference. Pardue served as chairman of the conference, which featured addresses by Dr. Earl Butz and Governor John Carlin of Kansas.

ELEMENTARY AND SECONDARY EDUCATION

Gordon W. Gray (Prof) has published a chapter, "Questioning in the Social Studies: Some Practical Suggestions

About a Confused Area," in Strategies for Improving Reading in Social Studies, Kendall/Hunt Publishing Company.

R. Ken Peden (Prof) presented a talk, "Air Borne Disease in Children," and a Task Force Report, "Develop Strategies for Implementing Environmental Health Education in Elementary and Secondary School," at the Annual American School Health Association Convention, San Diego, CA, Oct. 16-20.

ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) has been elected to full membership in the Human Factors Society.

A film, "Activity Sampling," one of a series entitled Cost Containment for the Hospital Manager, written and directed by Prof. Lindenmeyer, won first place (Hospital and Hotel Operations) in the national film competition sponsored by the Industrial Management Society (IMS). The film is available nationally through the IMS Film Library.

Prof. Lindenmeyer presented a paper, "Computer-Aided Work Sampling," to a group of about 40 management engineers at a conference of the Carolina Hospital Improvement Program at Southern Pines, NC, Nov. 16.

ENGLISH

Sterling Eisiminger (Asst Prof) read "Hogarth on the Technology and Work Ethic of the Eighteenth Century" at the third annual Interface: Humanities and Technology Conference, Southern Technical Institute, Marietta, GA, Oct. 25-26.

Robert W. Hill (Assoc Prof) published "To Sack the Remains," a short story, in The Davidson Miscellany, Spring 1979, pp. 54-8.

John Idol (Assoc Prof) was elected vice-president of the newly formed Thomas Wolfe Society established at the fifth annual Thomas Wolfe Fest, St. Mary's College,

Raleigh, NC. Members of Prof. Idol's English 890 class (Introduction to Research) published "Street Names in Clemson: A Representative List" in Names in South Carolina, 26 (Winter 1979), 27-8.

Fred Shilstone (Assoc Prof) published "Berlioz 'One Work': An Interdisciplinary Approach to Romanticism" in Images and Innovations: Update '70's, ed. Malinda R. Maxfield (Spartanburg, SC: Center for the Humanities, 1979), pp. 85-97.

Harold Woodell (Assoc Prof) read "The Preacher as Villain and Fool in Nineteenth-Century Southern Fiction" at the Popular Culture Association in the South, Louisville, KY, Oct. 19, and reviewed Hubert H. Crawford's Encyclopedia of Comic Books in Winterthur Portfolio, 14, No. 3 (1979), 337-38.

ENVIRONMENTAL SYSTEMS ENGINEERING

A. Ray Abernathy (Prof) was the organizer and chairman for a workshop sponsored by the Environmental Protection Agency presented in Greenville, SC, Nov. 27-28, on "Overland Flow for Treatment of Municipal Wastewater."

T. M. Keinath (Prof & Hd) presented an invited lecture, "Solids Inventory Control Strategies for the Activated Sludge Process," before the faculty and students of the Department of Civil Engineering of the Georgia Institute of Technology Nov. 14.

HISTORY

Joseph L. Arbena (Assoc Prof) has published "Development and Human Rights in Latin America: Ramblings of a Humanist" in World in Transition: Challenges to Human Rights, Development and World Order, ed. Henry H. Han (Washington, 1979).

Leonard Greenspoon (Asst Prof) has published "Max L. Margolis on the Com plutensian Text for Joshua" in Bulletin of the International Organization for

Septuagint and Cognate Studies, No. 12, 1979.

Richard M. Golden (Asst Prof) was one of 15 academics from around the country chosen by the American Telephone and Telegraph Company to participate in a conference on the relationship between the humanities and technology. The conference was held at the Bell Telephone Laboratories in Murray Hill, NJ, Nov. 1-2.

LANGUAGES

Russell Willingham (Instr, French and Methods/Materials) presented a paper, "Improving the Skills of Listening and Speaking," at the Mountain Interstate Foreign Language Conference in West Virginia Oct. 20.

Leonard T. Perry (Asst Prof, Spanish and Italian) read a paper, "Towards a Definition of Society in the Local Color Articles of Mariano José de Larra," at the 29th Annual Meeting of the Mountain Interstate Foreign Language Conference held at West Virginia State College in Charleston, WV, Oct. 19-20.

Gaston J. Fernandez (Prof, Spanish) was re-elected secretary-treasurer of the Mountain Interstate Foreign Language Conference at the annual meeting.

Prof. Fernandez was also elected chairman of the Spanish Section II at the annual meeting of the South Atlantic Modern Language Association held in Atlanta Nov. 1-3.

Margit M. Sinka (Assoc Prof, German) presented "The Central Symbol in two Novellas: A Literary Evaluation" (Meyer's Die Hochzeit des Monchs and Stifter's Bergkristall) on Nov. 2 at the annual meeting of the South Atlantic Modern Language Association.

MATHEMATICAL SCIENCES

C. V. Aucoin (Prof) visited the Department of Mathematics at the University of Louisville in Louisville, KY, Oct. 20 and

30 as a consultant for the department's mathematics programs at both graduate and undergraduate levels. Dr. Aucoin's visit to Louisville was through the auspices of the Society of Industrial and Applied Mathematics, Applied Mathematics Consultants Committee, which he chairs.

As a final lecture series, funded from the NSF Grant "Alternatives in Higher Education," Prof. Aucoin and K. T. Wallenius (Prof) invited Dr. R. R. Hocking of Mississippi State University to visit the Department of Mathematical Sciences Nov. 15-20. Prof. Hocking was given a series of colloquia on "Regression Analysis," "Models for ANOVA," "Computing Methods for ANOVA" and "Analysis of Incomplete Data." Prof. Hocking is a recognized leader in these areas of research and application and has consulted with Professors R. F. Ling, K. Alam, C. V. Aucoin and K. T. Wallenius. In addition, he has provided valuable suggestions concerning the department's curriculum in statistics.

James P. Jarvis (Assoc Prof) and Herman Senter (Asst Prof) participated in an NSF-sponsored short course in "Mathematical Modelling" held at Christian Brothers College, Memphis, TN, Oct. 22-23. They described to the conference the undergraduate math modelling course (Math 350) which is taught at Clemson.

R. M. Kauffman (Adjunct Prof) gave an invited talk in the special session on spectral theory of differential and integral equations at the American Mathematical Society Southeastern Sectional Meeting, Birmingham, AL, Nov. 9. The title of his talk was "On Ordinary Differential Operators with Positive Coefficients."

The Placement Test Program of the Mathematical Association of America is directed by a committee of six members of the association. The members include John Kenelly (Prof) and Thomas Carnevale (Vstg Prof) who participated in a two-day work session at MAA Headquarters in Washington, DC, Nov. 10-11.

On Nov. 15, Prof. Kenelly gave a special invited address to the mathematics faculty and the Advanced Program II cadets at the United States Military Academy in West Point, NY. The talk was on "Change's Change -- The Trend Marker."

John Luedeman (Assoc Prof) presented a talk to the Junior Academy of Science, Mu Alpha Theta Club, Nov. 6 at Riverside High School in Greer. His talk was entitled "Models and Mimics: An Excursion Into Mathematical Biology."

Stanley M. Lukawecki (Prof) attended the National Council of Teachers of Mathematics Conference in Nashville, TN, Nov. 15-17. On Nov. 16 he presented an invited talk, "Mathematical Science Major: What? Where? Who? Why?" to the meeting. Prof. Lukawecki presented a talk Nov. 15 to the Central Region of Tennessee Mu Alpha Club (high school mathematics club) on "Opportunities in the Mathematical Sciences."

MECHANICAL ENGINEERING

James G. Goree (Prof) has been awarded \$41,965 by the National Aeronautics and Space Administration for the period Oct. 16, 1979-Oct. 15, 1980 for NASA Grant NSG-1297, "Fracture and Crack Growth in Orthotropic Laminates." This is the sixth year of support from NASA for Prof. Goree's research in composite materials.

Prof. Goree presented an invited talk, "Micromechanics of Composite Fracture," at the 5th Annual Mechanics of Composites Review at Dayton, OH, Oct. 30-Nov. 1. This review is jointly sponsored by the Air Force Materials Lab, Air Force Flight Dynamics Lab, Air Force Office of Scientific Research, National Aeronautics and Space Administration, Naval Air Development Center and the Army Materials and Mechanics Research Center.

MUSIC

Martha Hamilton (Instr), flutist, and Lillian Harder (Instr), pianist, presented

a recital in Fullerton Auditorium, Gaffney, Nov. 6, sponsored by the Department of Music at Limestone College.

PHYSICS AND ASTRONOMY

Beverly B. Bookmyer (Prof), Danny R. Faulkner (Grad Stu) and P. A. Basilico (Grad Stu) have had "Epochs of Minimum Light, SW Lacertae" published as International Astronomical Union Information Bulletin on Variable Stars, No. 1685, 1979.

John R. Ray (Prof) and James L. Reid (Res Assoc) have recently published two papers, "Noether's Theorem, Time-Dependent Invariants, and Nonlinear Equations of Motion" in Journal of Mathematical Physics, 20, 2054 (1979) and "Exact Time-Dependent Invariants for N-Dimensional Systems" in Physics Letters A, 74A, 23 (1979).

A number of faculty members participated in the Southeastern Sectional Meeting of the American Physical Society (SESAPS) in Chattanooga, TN, Nov. 8-10. Participants and their contributions follow:

Prof. Bookmyer chaired a session of invited papers in astronomy.

John P. McKelvey (Prof and HD) presented a paper, "Two Theorems Regarding General One-Dimensional Oscillator Systems," and acted as chairman of a session of invited papers on the properties of anisotropic materials.

H. W. Graben (Prof), J. M. Haile (Prof, Chem Engr) and R. N. Sane (Grad Stu) presented a paper, "Description of Triplet Correlations in Simple Classical Fluids."

R. C. Turner (Assoc Prof), P. E. Atkins (Undergrad Stu) and J. B. Park (Assoc Prof, Bioenr) presented a paper, "EPR of Sterilization Radicals in PMMA Bone Cement."

M. J. Skove (Alumni Prof), D. R. Overcash (Vstg Asst Prof) and

J. W. Cook Jr. (NC State Univ) presented a paper, "Effect of Elastic Stress on the Superconducting Transition Temperature of Aluminum Whiskers."

Prof. Overcash, B. A. Ratnam (Vstg Asst Prof), Prof. M. J. Skove and E. P. Stillwell (Prof) presented a paper, "Stress Dependences of the Electron-Phonon Interaction and the Superconducting Transition Temperature in Metal Whiskers."

Prof. Skove and B. E. Powell (W Georgia College) presented a paper, "Finite Deformations in Lead Filamentary Crystals."

F. J. Keller (Prof) with R. B. Murray, D. G. Fisher and A. E. Purdy (all of Univ of Delaware) presented a paper, "Self-Trapped Exciton Luminescence and the Annealing of Point Defects in KC."

A. L. Laskar (Prof) presented an invited lecture, "Ionic Transport in Anisotropic Systems."

POLITICAL SCIENCE

Charles W. Dunn (Prof and HD) presented a paper, "Debate Methodology in Teaching American Government," at the SPSA annual meeting in Gatlinburg, TN, Nov. 1.

PROFESSIONAL DEVELOPMENT

Raymond Sawyer (Asst Prof, English) is chairperson for a two-day workshop, "Effective Public Speaking," to be held on campus Dec. 18-19.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is chairperson for a one-day course, "How to Control Absenteeism," to be held at the Rodeway Inn in Charlotte, NC, Dec. 19.

RECREATION AND PARK ADMINISTRATION

Lawrence W. Gahan (Prof) completed his term as president (1978-1979) at the 34th Annual Conference of the South Carolina Recreation and Park Society held in Myrtle Beach Oct. 5-7. Prof. Gahan

will serve in the office of past-president for 1979-1980. University.

Prof. Gahan was elected president-elect of the Citizens-Board Members branch of the National Recreation and Park Association during the Annual Congress for Recreation and Parks held in New Orleans, LA, Oct. 28-Nov. 1. Prof. Gahan served as program chairman for the CBM branch educational sessions at the congress and conducted a training workshop for board and commission members in conjunction with the educational program. Prof. Gahan serves as a member of the Executive Committee and the Board of Directors for the CBM branch.

Jack Stevenson (Prof) led five workshops in September and October for City of Greenville managers and first line supervisors on "Team Building, Communication and Motivation." Each workshop had 25 to 30 participants, lasted two days, and was held at the Outdoor Laboratory, Camp Hope.

Prof. Stevenson coordinated and moderated an invited educational session Oct. 30 for 90 minutes in the Superdome, New Orleans, at the National Recreation and Park Association Annual Congress. The session was entitled "Relationship of Churches to Local Leisure Service Agencies."

SOCIOLOGY

Christopher M. Sieverdes (Assoc Prof) presented a paper at the annual meeting of the American Society of Criminology in Philadelphia Nov. 7. The title of the paper was "Female Delinquents in Juvenile Institutions."

UNIVERSITY UNION

Marcia Kennard Kiessling has recently been appointed assistant program director for the Clemson University Union. A native of Evansville, IN, Marcia completed her master's degree in recreation and parks administration (emphasis: College Union Management) from Western Illinois

University. Bill Mandicott has been promoted to program director. Art Hartzog (former program director) is currently pursuing his Doctorate in Higher Education at Florida State University.

Bill Mandicott has also been selected to represent South Carolina as unit coordinator of the National Entertainment and Campus Activities Association. NECAA is a national organization of Student Activities/College Union professional staff, students and associate business agencies.

ZOOLOGY

Jack B. Waide (Asst Prof) was an invited observer at the Annual Information Meeting, Division of Environmental Sciences, Oak Ridge National Laboratory, Oak Ridge, TN, May 9-10, 1979.

MINUTES OF THE UNIVERSITY AUDIO-VISUAL COMMITTEE MEETING, OCTOBER 1, 1979

Present: M. F. Barber, D. W. Blair, L. H. Blanton, D. Y. Brannock, T. E. Burke, T. F. Collins, R. C. Davenport, T. W. Dimond, W. H. Durham, D. B. Luke, M. R. Weber.

Absent: R. G. Halfacre, W. A. Shain.

Chairman Tom Collins called the University Audio-Visual Committee to order at 3:35 p.m., Oct. 1, 1979, in Room 108, Strode Tower.

The minutes of the April 19, 1979, meeting were approved.

Chairman Collins briefly outlined the functions of the Committee: to advise the University on audio-visual matters, to evaluate the Communications Center (this year) and to sponsor the annual spring Audio-Visual Exhibition.

T. E. Burke commented on the spring 1979 Audio-Visual Exhibition. He suggested seminar-type sessions to instruct faculty in the use of audio-visual equipment, rather

than the traditional display of equipment. Such seminars could be organized by college or through department heads. Burke was named chairman of a subcommittee to develop such a plan for spring 1980. Membership: Dimond, Blanton and Luke.

Collins made available copies of the last available Communications Center Evaluation for Committee members to study in anticipation of this year's evaluation, the date of which will be established at the next meeting.

Next discussed was the development of a University film/video cassette bank of items of general University interest. ("The Ascent of Man" series was cited as an example.) Barber was named to contact the Library to discuss the development of the film/video cassette depository (as cataloging of equipment available overlaps the library functions).

The secretary was directed to furnish a list of committee members, their addresses and phone numbers to the membership along with the draft minutes of this meeting.

The final item discussed was a future meeting time for the Committee. A decision was made to try a lunch meeting (with sack lunches permitted) at 12:20 p.m. Oct. 25 in Room 108 Strode.

Respectfully submitted,
D. Y. Brannock, Jr., Secretary

MINUTES OF THE COUNCIL OF ACADEMIC DEANS MEETING, OCTOBER 15, 1979

The Council of Academic Deans met Oct. 15, 1979, in Sirrine Hall Conference Room. Dean Hurst called the meeting to order at 9 a.m. with the following persons present: Dean Hurst, Dean Anderson, Dean McClure, Dean Landrith, Dean Wilcox, Dean Brantley (for Dean Box), Professor C. C. Davis (for Dean Trevillian), Dean Cox, Dean Labecki, Dean Vogel, Dean Willis, Dean Schwartz, Dr. Reel, and Dr. Fleming.

The agenda items that had been approved by the Undergraduate Council and Graduate

Council at their Sept. 7 meetings were presented for action. All recommendations were approved except for one item from the Graduate Council regarding "Final Report of Committee to Study Allocation of Alumni Graduate Funds," which recommends a change in the present method of allocating Alumni Association funds. Some of the deans expressed a reluctance to endorse the recommendations of the report, and Dean Hurst appointed a subcommittee to give it further study. The subcommittee consists of Dean Wilcox, chairman, Dean Landrith, Dean Trevillian, and Dean Schwartz (ex officio).

Dean Hurst launched a discussion of President Atchley's Oct. 12, 1979, memorandum regarding "Proposals for Improved University Governance," which proposes the dissolution of the Educational Council and the establishment of a University Council. It also proposes the restructuring of University councils and committees as they presently exist. Dr. Atchley has requested that comments and suggestions be submitted to him in writing by Nov. 30, 1979, and Dean Hurst urged the deans to make their concerns known through this avenue, and also orally when they meet with the President.

In response to an inquiry, Dean Hurst stated that he did not expect the Council of Academic Deans to continue as a formal, policy-making body, once the administrative reorganization is in place. The deans feel that these meetings are very worthwhile and should be continued, and they asked to go on record to this effect. Dean Hurst stated that whether or not the Council of Academic Deans will continue under the new administrative structure, they can continue to meet informally for an exchange of information and ideas.

Dean Willis cautioned the deans that positions that go unfilled for 12 months will be deleted. There was a general discussion of problems in dealing with personnel matters--on our campus and in Columbia--and the deans inquired as to whether President Atchley can help in resolving some of these problems. Dean Hurst urged them to continue calling attention to these problem areas in the hope that they will eventually be improved.

Horace Fleming, in his capacity as chairman of the United Way for Clemson University, thanked the deans for their assistance in the campaign. In response to a question, Dr. Fleming informed that the payroll deduction will continue until an employee requests that it stop.

Dean Schwartz reported on the progress thus far in establishing the Student Data Base. He emphasized again the tremendous task involved and stated that they hope to come up with something each month for the deans to look at.

Dean Landrith stated that Oct. 24-26 he would be going to Career Day at Benedict College and would be happy to distribute any brochures from the other deans. The deans were urged to make a record of any such visits made by them or members of their colleges and retain such records for affirmative action purposes.

The meeting was adjourned at 10:35 a.m.

Respectfully submitted,

Annette H. Kesler

MINUTES OF VENDING MACHINE COMMITTEE MEETING, NOVEMBER 2, 1979

Members present were: Walter Cox, Robert Fuzy, Victor Hurst, David Kraus, John Newton, and James Roberts.

New members were welcomed, and a brief review of the committee's function was given by the chairman.

The financial report given indicated \$78,794.30 available as of June 30, 1979. However, \$50,000 of that amount had been approved for allocation to student organizations in 1979-80. Estimated revenue in 79-80 should be about \$25,000 to \$27,000.

The following requests were approved: Department of Languages, Foreign Languages Drama Contest, Dionysia, \$1,080; College of Nursing, Receptions for Parents' Day, Honors and Awards Day, Graduation, etc, \$300; and Duplicating Services Center, Open House, \$150.

One request to support a student research project in the Department of Psychology was not approved.

Meeting adjourned 10:00 a.m.

James Roberts
Chairman

Calendar of Campus Events

DECEMBER 1979

- 15 -- Basketball: Rider College (Men), Littlejohn Coliseum, 2 p.m.
- 15 -- Basketball: University of Louisville (Women), Littlejohn Coliseum, 4 p.m.
- 17 -- Basketball: Georgia Southern, Littlejohn Coliseum, women at 5:45 p.m., men at 8 p.m.
- 17,19 -- Seminar: "Assertiveness Training." Teaches participants to act in their own best interests. Sponsored by Counseling Center, open to faculty and staff. Call 656-2451 for more information.
- 18,20 -- Seminar: "Stress Management." Presents techniques useful in coping more creatively and effectively with the stresses of modern life. Sponsored by Counseling Center, open to faculty and staff. Call 656-2451 for more information.
- 19 -- General Faculty Meeting, Tillman Hall Auditorium, 10 a.m.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 19 -- Shortcourse: "Meeting Yourself Halfway--Meeting Others Halfway." Verbal and written exercises will be utilized to aid participants in self-understanding while getting to know others. Sponsored by Counseling Center, open to faculty and staff. Call 656-2451 for more information.
- 20 -- Mid-Year Graduation, Littlejohn Coliseum, 11 a.m.
- 20 -- Army and Air Force Commissioning Exercises. Sponsored by Aerospace Studies and Military Science Departments, Daniel Hall Auditorium, 9:15 a.m. Open to the public, no admission charge.
- 21 -- Dorms close 8 a.m.

NOMINATIONS INVITED FOR VICE PRESIDENT
FOR ACADEMIC AFFAIRS

All faculty and staff members are invited to participate in choosing the successor to Dean Victor Hurst, vice president for academic affairs and dean of the university, who will retire June 30, 1980.

The Committee to Search for Provost and Vice President for Academic Affairs asks that the entire Clemson family help identify potential candidates who should be considered. Nominations must be submitted by Dec. 7 to Dr. William E. West, chairman of the Search Committee, in the President's Office in Sikes Hall.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY



Vol. 19 No. 9

December 15, 1979

ELIGIBILITY REQUIREMENTS FOR FACULTY AND STAFF REDUCED CHARGES CLARIFIED

Certain definitions of University employees as stated on pages 19 and 20 of "The Graduate School Announcements 1979-80" and Section VII, Subject B, of the Personnel Manual are not in accord with the definition of the Board of Trustees as recorded in the minutes of the May 28, 1965, meeting of the Board.

The material relating to fees on pages 19 and 20 of the Graduate School Catalog was the primary source upon which most employees relied for fee charges information and interpretation. Due to its inaccuracy, some members of the faculty and staff not entitled to reduced fees under the Board's definition did not pay the correct amount for courses in which they were enrolled when they registered for first semester classes.

In defining a faculty member, the catalog was incorrect in using the phrase "For purposes of fee structure." Also, Section VII, Subject B, of the Personnel Manual states incorrectly that "For purposes of the Educational Assistance Program an eligible staff member is defined as an employee who works in a permanent (12 months) position at least 30 hours per week subject to the full control and responsibility of the University and receiving full remuneration for his services from funds included in the regular University budget."

At the May 28, 1965, meeting of the Board of Trustees, the following recommendation of the Executive Committee was approved:

"That a staff member be defined as a person employed full time in a regular position, subject to the full control and responsibility of the University and receiving full remuneration for his services from funds in the regular University budget."

Several years later, by action of the Board of Trustees, charges for both full-time and part-time students were increased. In order to meet Board policy requirements, fees for graduate assistants and staff were also increased. The following is extracted from item 4 of the minutes of the Board of Trustees meeting held on June 16, 1970:

"The Board of Trustees for several years has authorized a fee for University employees, at both the undergraduate and graduate levels, and graduate assistants at a cost considerably lower than the semester credit hour rate for a resident student. This practice has been of significant value in recruiting graduate assistants and many University employees have taken advantage of the opportunity to expand their professional qualifications."

Throughout the minutes of meetings of the Board of Trustees on the subject of reduced rates/fees, the wording at all times includes full-time employees as a requirement for eligibility. As early as the June 6, 1955, meeting of the Board, the language "full-time employees taking 6 or less credit hours" is in the official minutes. In the May 28, 1965, definition there is no doubt as to who is eligible for the favorable reduced rates. "A person employed full time in a regular position . . ." certainly includes both "faculty" and "staff" and both are employees of the University.

At the July 21, 1979, meeting of the Board of Trustees, the Board approved the following recommendation of the Administration:

"That an increase in the full-time undergraduate University Fee beginning with the Fall Semester 1979-80 in the amounts of \$67 per semester for South Carolina residents and \$144 per semester

for nonresidents with a corresponding proportionate increase in part-time and auditing fees, and a proportionate increase in fees for graduate assistants, and for full-time faculty and staff members in line with the established practice of charging them one-half (1/2) of the per semester hour fees established for part-time South Carolina resident students."

The academic fees schedules in effect for 1979-80 for part-time South Carolina resident students, and for full-time faculty and staff members are shown below:

Part-Time South Carolina Resident Student

Matriculation Fee (non-refundable)	\$ 5.00
Tuition (per semester hour)	\$ 6.00
University Fee (per semester hour)	\$28.00

Graduate Assistants, Full-Time Faculty
and Staff

Matriculation Fee (non-refundable)	\$ 5.00
Tuition (per semester hour)	\$ 3.00
University Fee (per semester hour)	\$14.00

COUNSELING CENTER HOLDS OPEN HOUSE

The University Counseling Center invites interested faculty and staff to an Open House on Wednesday morning, January 9, from 8 a.m. to noon.

The Counseling Center has moved from Tillman Hall and is now located in a mobile unit on East Campus across from the Redfern Health Center.

Staff members will answer questions about services the center provides, and coffee and doughnuts will be available.

ANIMAL SCIENCE

Dale L. Handlin (Assoc Prof) was elected president of the National Block and

Bridle Club at the annual meeting in Louisville, KY, Nov. 11. The Clemson Block and Bridle Club received national honors for the Junior Scholarship award and the list of chapter activities. The club's yearbook received first place in national competition.

CHEMISTRY AND GEOLOGY

A. R. Pinder (Calhoun Prof) has published "Pyrrolidine, Piperidine, and Pyridine Alkaloids" in Chem. Soc. Specialist Periodical Reports, The Alkaloids, 9, 35 (1979).

James C. Fanning (Prof), Frederick S. Mandel (former Grad Stu), Timothy L. Gray (former Grad Stu) and N. Datta-Gupta (Prof, SC State College) published an article, "The Reaction of Metalloporphyrins with Nitrogen Dioxide," in Tetrahedron, Vol. 35, pp. 1251-1255, 1979.

Prof. Fanning was co-author of a paper, "Promotion of N-Nitrosation Reactions by Metal Complexes: A Progress Report," presented at the 6th meeting on "Analysis and Formation of N-Nitroso Compounds" in Budapest, Hungary, Oct. 16, sponsored by the International Agency for Research on Cancer.

Garth Spencer (Prof) presented a seminar at Claflin College Dec. 3 on "Removal of Toxic Solutes from Waters by Hyperfiltration."

ECONOMICS

Ralph D. Elliott (Assoc Prof and Dir, Prof Dev) gave a presentation on "Marketing Continuing Education" at the South Carolina Association of Higher Continuing Education meeting held Oct. 17-19 in Spartanburg.

Prof. Elliott also discussed a paper on "The Distribution of Capital and the Distribution of Earnings" at the Southern Economic Association meeting held Nov. 7-9 in Atlanta, GA. Other participants at the meeting were:

--Benjamin M. Hawkins (Asst Prof) presented a paper, "Public Sector Strikes: A State Level Analysis 1968-1975," co-authored by Rodney Mabry (Northeast Louisiana Univ).

--Rex L. Cottle (Assoc Prof and Hd) presented a paper, "Unemployment: A Labor Market Perspective," and served as discussant of two papers in the Macroeconomic Theory section.

Dudley W. Blair (Assoc Prof) chaired a session on the Economics of Education at the Southern Economic Association Conference in Atlanta, GA, Nov. 18.

Hugh Macaulay (Alumni Prof) delivered the Honors Day Convocation address at Newberry College Nov. 1. He delivered an invited lecture at Wofford College Oct. 10.

Richard McKenzie (Prof) has published the following: (1) Book: Economic Issues in Public Policies, McGraw-Hill, released in November with 1980 copyright; (2) Article: "Revenue Sharing and Monopoly Government," Public Choice Fall 1979 (with Robert Staaf, Prof at VPI); (3) Article: "Principles of Political Economy in Principles of Economics," Economics: Innovations in Teaching Principles of Economics, edited by Jeff Clark, Joint Council on Economic Education 1979.

Prof. McKenzie also presented the following speeches and papers: (1) "The Methodological Compatibility of Science and Freedom," opening address at a Liberty Fund conference on the same topic, The Homestead, Virginia, Oct. 12; a previously published paper was also presented at the same conference; (2) "The Wage Fund Pay System and Departmental Discord in Academe," paper presented at Southern Economics annual meeting, Atlanta, GA, Nov. 7; (3) "Government Regulation as a Social Disease," speech given to the National Association of Educational Purchasing Agents, Carolina's Group, Nov. 6; (4) "Albert Einstein's Perception of Man and the Conception of Government," discussion paper presented at a conference on "Government Regulation, Liberty, and Justice," University of California,

Santa Barbara, CA, Nov. 26.

ELECTRICAL AND COMPUTER ENGINEERING

J. Kent Bryan (Assoc Prof) recently served as a paper reviewer for the special issue on Biomedical Pattern Analysis for the IEEE Computer Society Transactions on Pattern Analysis and Machine Intelligence.

William J. Barnett (Assoc Prof) is participating in the 1979-1980 speaker's bureau of the American Institute of Chemical Engineers. He has made presentations on "Microcomputers: A Revolution in Progress" to AIChE sections in Columbia, Stamford, CT, and White Plains, NY.

ELEMENTARY AND SECONDARY EDUCATION

Elizabeth B. Galloway (Prof) has been re-elected to serve a three-year term as the college representative and/or member of the Elementary Commission of Southern Association of Colleges and Schools.

Prof. Galloway is co-author of Encore Readers, Scott-Foresman and Company 1980, copyright date.

ENGLISH

Eleven members of the English Department were on the South Atlantic Modern Language Association program in Atlanta Nov. 1-3: Hallman Bryant (Assoc Prof) read "Reading the Map in A Good Man Is Hard to Find," Richard J. Calhoun (Alumni Prof) chaired a panel on "The Publishable Paper: Principles of Selection," Sterling Eisiminger (Asst Prof) presented a paper in the Linguistics Section, Bruce Firestone (Asst Prof) served as secretary and acting chairman of the Film Section and helped organize the William Styron Section, Louis L. Henry (Assoc Prof) chaired a session on "19th and 20th Century Gift Books," Robert W. Hill (Assoc Prof) served on the Nominating Committee of the Freshman English Section.

Also, Ronald F. Lunsford (Asst Prof) read "Metaphonic Construal in the Poetry of Wallace Stevens and Robert Frost," Roger B. Rollin (Lemon Prof) chaired the Renaissance Discussion Circle, Elisa Kay Sparks (Asst Prof) read "Williams, Manlove and Imaginary Worlds," Malcolm Usrey (Assoc Prof) chaired the Nominating Committee of the Children's Literature Section, Harold Woodell (Assoc Prof) read "The Image of America in Nineteenth Century Gift Books and Annuals." In addition, Professor Eisiminger was elected secretary of the Advanced Writing Section for 1980.

Prof. Eisiminger published "South Carolina Nicknames" in Names in South Carolina, 26 (Winter 1979), 22-24.

ENVIRONMENTAL SYSTEMS ENGINEERING

Alan W. Elzerman (Asst Prof) presented an invited lecture, "Atmospheric Inputs of Pollutants to Natural Waters and the Significance of the Air/Water Interface" at the University of Tennessee Nov. 26 and the University of South Carolina-Columbia Dec. 5.

A. R. Abernathy (Prof) organized and chaired a two-day workshop on "Overland Flow for Treatment of Municipal Wastewater." The workshop was sponsored by U. S. EPA and was held in Greenville Nov. 27-28. T. E. Pollock (Asst Prof) presented a paper, "Design and Performance of Overland Flow Systems," at the workshop.

A Japanese translation of the book Environmental Systems Engineering (McGraw-Hill) co-authored by L. G. Rich (Prof) has been published under the imprint of Sangyo Tosko of Tokyo, Japan.

HISTORY

Leonard Greenspoon (Asst Prof) presented a paper, "Theodotian, Aquila, Symmachus, and the Old Greek of Joshua," at the annual meeting of the Society of Biblical Literature in New York City Nov. 15.

Prof. Greenspoon was assistant editor for Volume 1 of Ezekiel in the Hermeneia Commentary Series published by Fortress Press.

Charles H. Lippy (Asst Prof) presented a paper, "Billy Graham's 'My Answer': Agenda for the Faithful," at the annual meeting of the American Academy of Religion in New York City Nov. 17.

E. M. Lander Jr. (Alumni Prof) read a research paper, "John C. Calhoun and the Mexican War," at the Southern Historical Association Convention in Atlanta Nov. 16.

Richard M. Golden (Asst Prof) published a review of John W. Padberg, Colleges in Controversy: The Jesuit Schools in France from Revival to Suppression, 1815-1880 in the Journal of Church and State, 21 (Spring, 1979), 370-71.

Donald M. McKale (Prof) published a book review of Alfred Sohn-Rethel, Economy and Class Structure of German Fascism (New York: Humanities Press, 1979), in Choice, XVI (November 1979), 1223.

HORTICULTURE

Landon C. Miller (Assoc Prof) presented a paper, "Botanical Characteristics of Turfgrasses," during the 13th Annual Clemson Turfgrass Conference Nov. 13 and 14. Prof. Miller was presented a Distinguished Service Award during the conference. The Award Plaque read: "In appreciation for his dedication and contribution in maintaining the highest of standards for the Golf Course Superintendent. Carolinas Golf Course Superintendents Association, 1979." Prof. Miller has been secretary of this Association since 1973 and has been associated with turfgrass education for the past 14 years.

INDUSTRIAL MANAGEMENT

Thomas W. Zimmerer (Prof) addressed the participants of the Peach Production Short

Course II Nov. 6. The program dealt with improving productivity through contemporary management practices.

Prof. Zimmerer also addressed the Annual Conference of Sales Executives for Wangner Systems Corp. of Greenville.

J. Michael McDonald (Asst Prof) was guest speaker at the Nov. 14 meeting of the Pickens County Rotary Club. He spoke on the topic of "Recent Studies of Executive Time Use."

E. Earl Burch (Prof) had an article, "Suggestions for Introducing OR/MS into an Organization," published in Industrial Management, Vol. 21, No. 5, (Sept-Oct. 1979).

Hendrikus E.J.M.L. van Bulck (Asst Prof) presented a paper (with Richard R. Still, Prof at Univ of Georgia) on "Developing a Multifactor Theory of Global Orientation in International Marketing: A Re-Examination of Current Decision Models," at the Annual Conference of the Southern Marketing Association in Atlanta, GA. Prof. van Bulck was a discussant for two of the sessions of that meeting. The article and discussant comments were published in the Proceedings.

Prof. van Bulck also published an article, "Effect of European Parliament Elections on U. S. International Trade," in the Textile Marketing Letter (Nov. 1979).

INTERDISCIPLINARY STUDIES

J. B. Park (Assoc Prof) has published two papers: "Alveolar Bone Ingrowth into Porous Dental Implants by Electrical Stimulation" with S. O. Young (former Grad Stu) and G. H. Kenner (Assoc Prof), and "Effect of Electrical Stimulation of Canine Skin and Percutaneous Device--Skin Interface Healing," with J. B. Bigelow (former Grad Stu), S. A. Al-Husseini (former Grad Stu) and A. F. von Recum (Prof) in Electrical Properties of Bone and Cartilage, edited by C. T. Brighton, J. Black, and S. R. Pollack, Grune & Stratton, N. Y., 1979.

G. H. Kenner has also published a paper, "Electrical Modification of Disuse Osteoporosis Using Constant and Pulsed Stimulation," with J. W. Precup (Univ of Illinois-Urbana), E. W. Gabrielson (Univ of Illinois-Urbana), W. S. Williams (Univ of Illinois-Urbana) and Prof. Park in Electrical Properties of Bone and Cartilage, edited by C. T. Brighton, J. Black and S. R. Pollack, 1979.

LANGUAGES

Margit M. Sinka (Assoc Prof, German) presented a workshop with Prof. Brett of Northern Kentucky University on techniques and activities for German composition and conversation courses at the annual meeting of the American Association of German Teachers held in Atlanta Nov. 22-24.

MATHEMATICAL SCIENCES

J. V. Brawley (Prof) gave an invited lecture on "Mathematics and Gambling" at the National Council of Teachers of Mathematics meeting in Nashville, TN, Nov. 17.

John D. Fulton (Prof and Hd) has had a paper published in Linear Algebra and Its Applications, Volume 28, pp. 69-76, 1979. The paper is entitled "Generalized Inverses of Matrices over Fields of Characteristic Two."

On Dec. 3 Prof. Fulton spoke to the Summerville High School mathematics faculty and the students in advanced algebra and trigonometry classes on "What Mathematicians Do--Operations Research." Stanley M. Lukawecki (Prof) spoke to the Summerville faculty and students concerning "Career Opportunities in the Mathematical Sciences." That afternoon Profs. Fulton and Lukawecki gave the same talks to the Mu Alpha Theta Student Mathematics Club and members of the mathematics faculty of Goose Creek High School. Each of these high schools has over 2,500 students.

John Kenelly (Prof) spent Nov. 27 working with the mathematics teachers and students

in Florence high schools. He gave four talks to students at South Florence, West Florence and Wilson High Schools, and he also directed an advanced placement workshop at the district offices for the mathematics teachers, supervisors and district superintendent.

Richard Ringeisen (Assoc Prof and Assoc Hd) gave an invited lecture, "Graphs, Models and Mathematics," to the mathematics faculty and graduate students at the University of Louisville Nov. 27. Prof. Ringeisen gave similar lectures, aimed at an undergraduate level, at two liberal arts colleges in Indiana, Taylor University and Manchester College, Nov. 28. On Nov. 30 he gave another lecture, intermediate to the above levels, at Fort Wayne Campus of Purdue University.

MUSIC

Edith B. Card (Asst Prof) has had a record review published in The Hymn, Oct. 1979. The record, performed by Southern Traditional Singers, is entitled "The Social Harp: Early American Shape-Note Songs from Singing School and Camp Meeting." The Hymn is the official publication of the American Hymn Society.

NURSING

Judith J. Chodil (Assoc Prof and Dir, Cont Ed) spoke at the Fall Conference of the S. C. Association of Higher Continuing Education held Oct. 17-19 in Spartanburg. Her topic was "Update on Licensing Laws in Nursing: Mandatory Continuing Education."

Mary J. Wilhite (Assoc Prof and Dir, Bac Prg) and Cynthia L. Belcher (Asst Prof) participated as voting members at the National League for Nursing Council of Baccalaureate and Higher Degree Programs Semi-annual Meeting held Nov. 12-18 in Seattle, WA.

Geraldine Labecki (Dean) participated at the National League for Nursing Board of Review for Baccalaureate and Higher Degree Programs meetings (for accredita-

tion) held Dec. 2-7 in New York City.

Veronica F. Rempusheski (Asst Prof) represented Gamma Mu (Clemson's College of Nursing Chapter) at the National Convention of Sigma Theta Tau held Nov. 7-9 in Seattle, WA.

PHYSICS AND ASTRONOMY

Philip B. Burt (Prof) gave a talk, "Quantum Mechanics and the Nonlinear Connection," at the University of Alabama Nov. 7. Prof. Burt also attended the Eastern Conference on Theoretical Physics at the University of Maryland Nov. 16-17.

John Ray (Prof) presented a talk, "Time-Dependent Invariants with Applications in Physics," at the Georgia Workshop in Mathematical Physics Nov. 27. The workshop was held at the Center for Applied Mathematics at the University of Georgia.

PLANNING STUDIES

Glenn E. Varenhorst (Assoc Prof) was appointed chairman of the Environment and Energy Commission (for the current year) of the S. C. Chapter of the American Planning Association.

Prof. Varenhorst served as a group facilitator in seminar and study groups at a workshop of the National Agricultural Lands Study, held Nov. 12-14 in Burlington NC. This workshop was sponsored by the National Agricultural Lands Study, U. S. Department of Agriculture.

PLANT PATHOLOGY AND PHYSIOLOGY

N. D. Camper (Prof) attended a meeting at Elanco Products, Eli Lilly Co., Indianapolis, IN, Nov. 28 and presented a seminar, "Microbial Degradation of Herbicides--A Review."

Linda W. Young (Grad Res Asst) and Prof. Camper have had a paper published in Pesticide Biochemistry and Physiology,

Volume 12, pp. 117-123, 1979, entitled "Trifluralin Effects on Tobacco Callus Tissue: Mitosis and Selected Metabolic Effects."

PROFESSIONAL DEVELOPMENT

Claude S. Simpson Jr. (Instr, IM and Asst Dir, Prof Dev) is course chairperson for a seminar, "Developing Skills and Attitudes for Personal and Professional Effectiveness," to be held Jan. 15-16 at the Ramada Inn in Greenville.

Mr. Simpson is also chairperson for a one-day seminar, "How to Control Absenteeism," to be held Jan. 15 in Columbia.

TEXTILES

Hassan M. Behery (Assoc Prof) presented a seminar, "Procedure for Design of Fabrics for Particular End Use," for the Department of Design and Environmental Analysis (DEA) at Cornell University Nov. 6. The presentation included part of the research results of the Air Force

project under way in the Textile Department. Prof. Behery is the principal investigator of this project.

ZOOLOGY

Edward Ruppert (Asst Prof) recently published a paper, "Morphology and Systematics of the Xenotrichulidae (Gastrotrichia, Cheatonotida)," in Mikrofauna Meeresboden 76: 279-292.

Prof. Ruppert was also an invited speaker at the NSF sponsored Third International Symposium on the Tardigrada at Tennessee State University held in August. His paper was entitled "Comparison of Phylogenetic Methods in Systematic Research."

John P. Wourms (Assoc Prof) has recently been appointed Clemson University's official representative for the American Society of Zoologists.

Darrell G. Yardley (Asst Prof) presented a seminar, "The Evolutionary Paradigm," at North Greenville College in October.

MINUTES OF THE FACULTY SENATE

October 16, 1979

Senate Chamber

1. Call to Order

The meeting was called to order by President Fleming at 3:30 p.m.

2. Approval of Minutes

The Minutes for September 18, 1979 were approved as written.

3. Introduction of Special Guest

President Fleming introduced Mr. Jeffrey M. Anderson, President of the Student Senate, who made a brief presentation to the Senate. He indicated that both Senates share the same basic goals although our respective views may differ at times. He expressed a desire for closer communication and cooperation in the future. He briefly discussed the Student Senate's work on the following issues:

- A. The establishment of an inter-Senate Working Committee
- B. Student representation on the Committee to select a new Academic Vice-President
- C. The student advisory system
- D. The "Tenth-College" concept
- E. Football bowl tickets
- F. The textbook situation at Clemson
- G. The drop-date issue and
- H. Commencement exercises

Mr. Anderson expressed optimism about the coming year, the quality of Student Senators, and the prospects for inter-Senate cooperation.

There was a brief discussion between Mr. Anderson and members of the Faculty Senate of the proper role of students on academic selection committees.

Senator Rollin suggested that since the Faculty Senate had demonstrated little enthusiasm for the "Tenth-College" concept, the Student Senate might study the issue and communicate its findings to the Faculty Senate. Senator Snipes demurred, characterizing such a concept as a "virilant bacteria" capable of growing into monstrous proportions.

4. Committee Reports

(A) Admissions and Scholarship Committee:

The Admissions and Scholarship Committee held its monthly meeting on October 9. The entire meeting was devoted to the admissions question. Dean Vickery and Mr. Mattox, Director of Admissions, appeared to discuss the complexities of the admissions process. From this discussion, the following information emerged:

The freshman class consists of 2550 students. There are 1700 dormitory spaces available, for which 3100 dormitory applications were taken by October when the dormitories were declared filled (there were 4,000 applications for dormitory rooms by January). Of these 3100, one out of four were eventually turned down. Dean Vickery pointed out that while there was a great demand for the 1700 places, there was not as much demand for the other 850 places, although the standards are identical. (It took, for example, 2300 applications to get 850 students.)

The question was raised whether the present system confuses housing with admissions. Dean Vickery and Mr. Mattox assured the committee that this was not the case, that housing and admissions are indeed separate. However, it was then asked whether by filling the dormitories so early, we are not shutting out housing to those who apply later and thereby causing us to miss some of the best students. Mr. Mattox indicated that of those informed that dormitory space was no longer available, 740 did not respond, evidently having lost interest in admission to Clemson as a result; 98 of these had S.A.T. scores of 1100 or more, roughly 10 %. Dean Vickery pointed out that some schools guarantee housing to incoming freshman; that is, they accept first and then worry about housing, generally at the expense of upperclassmen. He suggested that this would be unpopular and controversial here with undergraduates.

The admissions pool is based on predicted G.P.R., which is figured according to 55% class rank, 45% S.A.T. (letters of recommendation, although solicited, evidently do not figure at all). There are three equations used for the formula to decide the predicted G.P.R., which have been derived from how students performed in the past. There are different equations because the disciplines within the University are different. The formula for each college is determined by the character of its curriculum; it is not, as some believe, decided unilaterally by the Admissions Office. As for the applications themselves, although the pool is compiled by the computer, applications "are seen" by at least two people. Dean Vickery estimated that the following predicted g.p.r. will yield a class of 2500:

2.1 S.C. applicants

2.2 Out of state

A predicted g.p.r. of 2.5 or higher is automatically accepted, as early as October when dormitory applications are taken.

Some concern was expressed about the double standard that exists in the S.A.T. requirement of incoming freshmen, but not of transfer students. Mr. Mattox said admissions policy for transfer students needs to be less rigid and more diverse, that there is a need for "more discretionary power" here. We accept transfer students with a year of college at accredited institutions with a 2.3 grade average. Mr. Mattox insisted that a S.A.T. requirement of transfer students is little done, and that it would meet a lot of opposition from students and other colleges.

Finally, when asked for their opinion on whether the Admissions Office should be moved administratively to Academic Affairs, Dean Vickery explained that 51% of schools nationally have it in Student Services as we do.

Our next meeting will be Tuesday, November 6, at 3:30 in Room 411 Strode Tower. At that time we will sift through this information and try to arrive at some recommendations for changes in the present admissions policy.

Respectfully submitted,

Alan Grubb, Chairman

- - -

Admissions and Scholarship Committee

The following have been designated as our administrative counterparts:

Kenneth Vickery, Dean of Admissions and Registration

William Mattox, Director of Admissions

Reginald Berry, Registrar

Marvin Carmichael, Director of Financial Aid

Arnold Schwartz, Dean of Graduate Studies

Jerome Reel, Acting Dean of Undergraduate Studies

Corinne Sawyer, Chairperson, Honors Council

- - -

A discussion followed concerning the relationships among admission standards and class rank, the size of schools, the quality of schools, the senior year of high school and transfer students. Senator Edie suggested that students be included in further committee consideration of these issues.

Senator Grubb also noted that the issue of scheduling first-semester freshmen without their approval had been discussed with Mr. Berry, the registrar, but not yet with Mr. Fleming at the Computer Center. Mr. Berry has indicated that there is some student choice in the form of preference cards signed during the summer, but he was unsure of the overall effect this had on actual course selection.

Senate discussion centered on the issues of special standards for athletes and the waiver of SAT score requirements for transfer students.

(B) Policy Committee:

Policy Committee Report, October 16, 1979:

The Faculty Senate Policy Committee held three meetings during the past month. The Committee has met with Dean Hurst to discuss the current use of the title "Adjunct Professor", and to receive information about evolving University needs in terms of various faculty positions, position titles, and tenurable positions.

The meeting with Dean Hurst resulted in considerable discussion and has provided several proposed recommendations to the Senate from the Policy Committee.

The recommendations concern:

1. Adjunct Professor - The position currently is used to designate persons of special talent or position who provide services to the University on a non-remunerative basis. The position as defined by the Faculty Manual may be designated either "Adjunct Professor" or "Adjunct Associate Professor". The person recommended for appointment should have credentials and experience comparable to similar faculty positions.

(a) Committee Recommendation:

That the Faculty Senate seek redefinition of the position title "Adjunct Professor", and that only this one title be used to designate persons who serve the University in unique ways on a regular but non-remunerative basis.

(b) Committee Recommendation:

That the University review the listing of Adjunct Professors, Adjunct Associate Professors and other titles currently used to recognize persons that contribute in similar ways and make necessary changes.

(c) Committee Recommendation:

That the Senate work with Dean Hurst's office to develop guidelines for nominations, appointments, and communications concerning the faculty title "Adjunct Professor".

(d) Committee Recommendation:

That the Senate advise Dean Hurst that the use of the title "Lecturer" not be used in place of the Adjunct Professor titles.

2. Faculty Position Titles:

The current use of various faculty titles does result in considerable confusion and often tends to generate special titles for one or more positions, current faculty listings were not readily available, but the 1979-80 Announcements showed fifteen different titles: Professor, Visiting Professor, Alumni Professor, Visiting Alumni Professor, Adjunct Professor, Associate Professor, Visiting Associate Professor, Adjunct Associate Professor, Assistant Professor, Visiting Assistant Professor, Lecturer, Visiting Lecturer, Visiting Part-time Lecturer, Instructor, and Visiting Instructor.

(a) Committee Recommendation:

That the Faculty Senate seek consolidation of some faculty position titles: That the positions currently listed as "Visiting Lecturer" and "Visiting Part-time Lecturer", be retitled "Lecturer" in recognition that all such positions are intact considered short-term or part-time appointments.

(b) Committee Recommendation:

That the Faculty Senate seek redefinition of the "Instructors" position as it appears in the Faculty Manual. That the Instructors title be recognized as a "faculty position" and after 1981 be a faculty position in which a person may earn tenure. (Current descriptions includes

the "Instructor" when describing membership in our faculty but excludes this position from award of tenure).

The Policy Committee will continue to work on the problems associated with various definitions of faculty titles and provide assistance to Dean Hurst's office as requested. The use of faculty assigned to various titles does vary from department to department. The various limits on the use of "visiting" staff are not well organized and difficult to find. Therefore these faculty often find that violations of certain University policy or procedure has resulted from their action.

The Policy Committee Chairman has received an inquiry as to the policies and procedures concerning the postal service on the Clemson University campus. The problem of a long delay between pickup and exit from campus, change from First Class to Book Rate, etc., and reported lost mail has resulted in our request for a copy of standing University policy concerning mail service.

The next meeting will be held at 3:30 p.m., October 23, in Room 101 Freeman Hall.

Respectfully Submitted,

W. E. West, Chairman
G. Worm
H. Webb
R. Rollin
J. Komo
J. Dick
D. Snipes
M. Armistead

- - -

Senator West noted that he would make a motion to have the recommendations encompassed by the report voted on as policy recommendations from the Faculty Senate, under new business. He noted further that Item I (A) on Page one included such people as ROTC Instructors and Lecturers on special technologies. a general discussion ensued aiming at clarification of the report.

(C) Research:

Research Committee Report of October 16, 1979:

The Research Committee met on October 15. Items discussed included the Ad Hoc Committee on Research Funding and the proposed copyright policy. By mutual agreement of the members of the Research Committee, Keith McDowell has agreed to be chairman of the Ad Hoc Committee on Research Funding.

Work on the copyright policy is continuing. The Research Committee hopes to complete changes in the policy in December, and to present to the Senate the revised proposed copyright policy in January.

- - -

Bill R. Smith, Chairman

Senator Smith elaborated on the report by noting that Mr. Darrell Hickman is not involved in a study of research funding as thought by some Senators.

Senator Turnipseed noted that an Ad Hoc Committee is needed because of the paucity of current support efforts by the existing office of University Research. The Committee should study how more successful efforts are achieved at other institutions. He indicated that Ad Hoc Committee efforts should be coordinated with President Atchley's attempt to secure more outside funding for University activities.

Senator Burt reported that in the meeting between President Atchley and the College of Sciences Senators, a suggestion was made to create a Vice President for Research to establish liaison between the University and funding agencies and expedite the transmittal of proposals.

Senator Turnipseed suggested the inclusion on the Ad Hoc Committee of a dean or department head in order to "tell it like it is." President Fleming indicated that he envisioned a broad committee.

(D) Welfare:

Senator Baron reported that he had invited Mr. Robert L. Fuzy, President of the Student Body, and Mr. Jeffrey M. Anderson, President of the Student Senate to discuss the commencement issue which will be studied next month. He announced that the motion on Commencement which was tabled in September will stay on the table until November.

(E) Ad Hoc Committees

Senator Kimbell reported that the Ad Hoc Committee on Student Advisement has decided to pool its efforts with similar efforts by the Undergraduate Council led by Judy Melton. He also indicated that an effort would be made to gain student input. A joint meeting of all interested parties will be held soon and current efforts are being directed at collecting and preparing data.

Senator Thompson reported that the Ad Hoc Committee to plan a reception for the Board of Trustees in January has gained access to the Alumni Center and that there will be a more complete report later on.

President Fleming indicated that President Atchley has received queries about Clemson's textbook policies, and that he was appointing to a Faculty-Student Committee to study the question the following Senators: Kimbell, Kelly, Lambert, and Schindler. They have met with their student counterparts and will prepare a written report in the near future. Faculty Senate discussion ensued over the issues of royalties and the use of locally-written books on other campuses.

(F) University Councils and Committees

Senator Baron reported that a sub-Committee of the Undergraduate Council on the dropping of re-examinations for F's and grade-point deficiencies has agreed with student complaints about seniors being hurt, should the Senate's Resolution FS 79-3-4 be approved. He announced his intention to offer an amendment to that resolution under "old business."

Senator Webb reported on a meeting of the Athletic Council which discussed the inability to form a coed fencing team, the problem of travel arrangements, and the TV coverage of the Clemson-Maryland game. When asked if Title IX had been discussed, he indicated that it had, "in a broad way."

5. President's Report - October '16, 1979:

1. On August 8, 1978, the Attorney General issued an opinion which states that faculty members, once they have completed six months of satisfactory service at an institution of higher education, become permanent employees just like classified employees and, therefore, have the right to appeal grievances to the State Grievance Committee under S. C. Code Section 8-17-30, as amended. This ruling by the Attorney General has the effect of substantially modifying--if not changing entirely--the concept of "tenure" as we define it. Rather than be considered probationary employees until obtaining tenure, all faculty members under these circumstances have the equivalent of tenure after six months of satisfactory service (including visiting faculty hired for stated periods of time).

On August 6, 1979, the Attorney General issued a second opinion on the subject in which it was held that, since faculty members become permanent employees after six months of satisfactory service, they can be dismissed thereafter only for cause. In this and his previous opinion, the Attorney General relied upon interpretations by his office of the State Personnel Rules and Regulations. However, it is clear that those rules and regulations were written with classified employees in mind and without much thought, if any, to their impact on faculty at state colleges and universities.

Recently, a bill was introduced in the General Assembly (H. 2680) to exempt faculty from coverage under S. C. Code Section 8-17-30. This measure has the support of the Faculty Senate of the University of South Carolina, as well as the executive officers of several state colleges and universities. President Atchley has gone on record as supporting the exemption.

Currently, if a tenured faculty member is notified of his/her dismissal at any time, or if a non-tenured faculty member is notified of his/her dismissal before the end of a specified contract term, either faculty member has the right to a hearing before the Advisory Committee of the Faculty Senate and may appeal any adverse decision the Advisory Committee may render all the way to the Board of Trustees before the dismissal becomes final. Once that appeals process has been exhausted and the dismissal does become final, the faculty member has the right to file a grievance under the University Employee Grievance Procedure and appeal his case all the way to the State Grievance Committee. Faculty members can, in lieu of appealing to the Faculty Advisory Committee, let the notification of dismissal be treated as final and immediately file

President's Report
October 16, 1979
Page Two

a grievance under the University Employee Grievance Procedure. In other words, the faculty member can elect to appeal under either process or use both appeal processes by appealing to the Faculty Senate Advisory Committee first and exhausting that remedy and then filing a grievance under the University Employee Grievance Procedure.

If H. 2680 is passed, it is the intention of the administration of Clemson University to require all faculty members who are aggrieved because of their notification of dismissal or termination to use the appeals process as stated in the Faculty Manual if they want to appeal their pending dismissal or termination. Such faculty members probably would be excluded from filing a dismissal or a termination grievance under the University Employee Grievance Procedure. It is President Atchley's feeling that present provisions of the Faculty Manual governing this subject are adequate protection for faculty, especially since we are allowed a hearing before our peers. If H. 2680 is enacted, it would be made clear to faculty members that grievances relating to termination and/or dismissal would continue to be heard by the Faculty Senate Advisory Committee. Other grievances would be heard through the University Employee Grievance Procedure. But faculty members would be informed that we could no longer appeal any grievance to the State Grievance Committee. The decision reached at the University level would be final.

2. The State Personnel Division now requires that all state agencies formulate and impose a "progressive discipline policy" to cover their employees. A progressive discipline policy sets forth particular offenses and establishes increasingly harsher penalties for subsequent violations of the same nature. President Atchley opposes this requirement, but it appears that he has little choice but to conform to this requirement. Thus, the Cabinet will receive a draft policy from our own Personnel Office within the next month. I will keep you informed of these developments.
3. President Atchley has given his support, at our request, to a proposed amendment which would change the current pre-retirement death benefit provisions of the State Retirement Law. As you know, Section 9-1-1660 of the S. C. Code requires that an employee who dies in active service before retirement must have
 - (a) attained age 65, or
 - (b) completed 30 years of creditable service, or
 - (c) attained age 60 and completed 20 years of service.

Otherwise, the only benefits the employee's beneficiaries/dependents receive are the employee's \$3000 free life insurance,

President's Report
October 16, 1979
Page Three

his/her own contributions to the state retirement fund plus interest at the rate of four percent. State contributions to his/her retirement fund/account are withdrawn and retained by the state.

Certain members of the General Assembly have expressed a willingness to prefile a bill which would change the 30 year provision under option (b) above to 15 years and allow beneficiaries/survivors of the deceased employee to receive a prorated pre-retirement death benefit after accumulating at least that amount of service.

President Atchley has communicated his support of such a measure to President Holderman of the University of South Carolina and has asked that the matter be placed on the agenda of the Council of Presidents. He will also communicate with key individuals in the state to help effect this important change in the retirement law.

4. President Atchley has asked--partly at our request--that the availability of Fike Recreation Center to faculty and staff (as well as their guests) be reexamined. He has asked Vice President Walter Cox to review the matter. President Atchley specifically favors development of a "free" access period, perhaps during mid-afternoon hours, for faculty and staff. This would be at a time when most students are in class and do not typically use Fike.
5. The Cabinet is considering various locations on the campus where the National Council of Engineering Examiners might be housed. The NCEE might be given a parcel of land on which to construct or lease facilities, thus keeping this important body in the immediate area. I will keep you informed of the progress of these discussions.
6. A proposal has been placed before the Cabinet which would allow banks in the community to locate 24-hour banking machines on the campus. The site tentatively chosen is that open area just across from the Trustee House and to the left front (facing) Johnstone Hall. Plans for such a facility are still in the discussion stage.
7. The Campus Names Committee has recommended--and the Cabinet has approved--the name "Calhoun Court" for the new planned student housing on East Campus. The name honors Patrick N. Calhoun, Clemson graduate, former Life Trustee, former President of the Alumni Association and the Clemson University Foundation, now deceased.

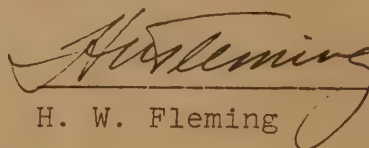
President's Report
October 16, 1979
Page Four

8. On September 20, the Cabinet received a report from the University Ad Hoc Group Life Insurance Committee showing that during the year ending April 30, 1979, premiums in excess of claims and expenses amounted to \$97,717. Retention of the full amount as a contingency reserve for future stability of the program was approved. Funds will be left on deposit with Prudential Insurance Company at the current rate of 7 5/8 percent. The Cabinet expressed appreciation to the Ad Hoc Committee for their work in reviewing the program.
9. I have talked further with Ms. Beulah Cheney, University Publications Editor, concerning distribution of the Senate bulletins, beginning in November. I am pleased to report that there will be distribution of these bulletins by her office to all faculty and staff on an individual basis, which was our preference.
10. On Thursday, September 27, I accompanied our Board of Trustees, President Atchley and Vice President McDevitt to the University of South Carolina for a joint meeting of the two boards. While on the University campus, I visited with my counterpart, Professor Charles Coolidge, Chairman of the Faculty Senate, University of South Carolina. You have received a letter which I subsequently addressed to him proposing that a larger conference of faculty senate leaders in all state colleges and universities be planned for early 1980. The purpose of such a conference would be to exchange information on issues and problems of common concern. In the interim, Dean Hurst and I have been invited to meet informally with Professor Coolidge and the Provost of USC to address some of these topics. I will keep you advised of plans for this meeting and any conference idea that may develop further.
11. The appeal from dismissal previously filed by a tenured faculty member with the Advisory Committee has been withdrawn.
/See President's Report, September 18, 1979, page 5, item 12d./
12. The Search Committee for Provost of the University has been enlarged to include faculty from the colleges of Sciences and Forest and Recreation Resources. Senator West has been elected to chair this committee. (A request from the library faculty to have one of their number added to the committee was declined by President Atchley.)
13. On Tuesday evening, October 9, I attended the Student Government Banquet and spoke briefly, on behalf of the Senate, to those in attendance.
14. On Saturday, October 13, I participated in the Student Government Workshop.

President's Report
October 16, 1979
Page Five

15. The University Self-Study by the Southern Association of Colleges and Schools is scheduled for 1980-81. According to Dean Hurst, a director will be named in December, 1979; a University Self-Study Committee will be appointed in the spring of 1980; the bulk of the work will be completed by departments and colleges in the fall semester 1980-81; and reports will be written during the second semester of 1980-81. A report will be submitted to SACS in the summer 1981, and the team visit will be scheduled for the fall semester 1981.
16. The Board of Visitors will arrive on campus Sunday, November 4, 1979.
17. Vice President Thompson, Dean Hurst, Dean Box, I and others will visit Hobcaw Barony October 24-25.

Respectfully submitted,


H. W. Fleming

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Spirited discussion of Item I ensued focusing on the meaning of the Attorney General's opinion, the lack of awareness by the State Personnel Division of what faculty positions are like, the effect on "visiting" professors, and whether we are really losing anything in this situation.

With regard to Item 7, Dr. Fleming noted that the Board of Trustees will make the ultimate decision.

With regard to Item 8, Dr. Fleming noted that the Cabinet mistakenly assumed that it was supposed to decide what to do with the surplus, but actually the decision should, and hopefully will, be made by the insurees. The Senate discussed the pros and cons of dividends versus premium protection. Senator Howard noted that the insurance was sold on the basis of dividend returns.

President Fleming also reported, as information, two Student Senate resolutions - one on a Working Committee between the two Senates (see Attachment A) and the other on student committee representation (see Attachment B).

Senator Rollins asked, with regard to Item 4, whether provisions would be made for faculty spouses and children? Dr. Fleming reported that this would be considered. In response to another question, he noted

that Summer Camp use of the facilities was not discussed.

6. Old Business:

With regard to last month's inquiry into the status of faculty evaluations, President Fleming asked if there were any problems relating to sufficiently early consultation between faculty and department heads. A desultory debate revealed some problems in the College of Nursing which will either be pursued through channels or else investigated by the Welfare Committee which would really rather not, according to Senator Baron.

President Fleming announced that the University-wide student evaluations will take place on November 12. This was greeted with less than universal enthusiasm by the Senators.

Senator West reported that the Search Committee for a University Provost had added representatives from every College and division except for the Library, that the Committee had been getting organized, and that it is drafting an official announcement of the opening. The precise job description has not been completed, but the title will include the word "Provost" and the person named will be able to act for the President. Student participation will be solicited.

Senator Baron proposed the following amendment to FS-79-3-4:

FS-79-3-4

WHEREAS, the original reasons for institution of the policies allowing reexaminations for deficient grade-point ratio and for an F received the last semester of the senior year no longer exists.

BE IT THEREFORE RESOLVED that the practice of reexamination for an F received the last semester of the senior year and reexamination for deficient grade-point ratio (as described in paragraphs 4 through 7 of page 48 of Clemson University Announcements 1978/1979) be abolished.

Motion to Amend FS-79-3-4:

WHEREAS, the policy for allowing reexamination for deficient grade-point ratios provides some individual students an advantage with respect to their colleagues; and

WHEREAS, the policy is an imposition on the faculty member being required to provide the reexamination;

BE IT THEREFORE RESOLVED that the practice of reexamination for deficient grade-point ratios (as described in paragraphs 4 through 6 of page 52 of Clemson University Announcements 1979/1980) be abolished.

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Debate centered on whether this was for "less viable" students or marginal students and whether the Senate could amend a resolution already before the Undergraduate Council. The Faculty Senate, like the British Parliament, can apparently do anything it wishes, procedurally, except make a man into a woman. The question was called, and the amendment was passed.

7. New Business:

Senator West attempted to have the Senate approve the resolutions contained in the Policy Committee report (above) as a policy recommendation from the Senate. A semantical debate ensued concerning the murkier aspects of "honor" and "public relations" which was more confusing than enlightening. A motion to re-commit the question to the Policy Committee for further study was made by Senator Burt. It was approved.

A motion was made by Senator Rollin to have the Advisory Committee appoint a three-person Ad Hoc Committee to study and make recommendations concerning the "Proposals for Improved University Governance" (See Attachment C). The motion was approved.

Senator Coulter introduced FS-79-10-1 and moved its adoption.

FS-79-10-1

WHEREAS the division of faculty representation on the proposed University Council between Senators and non-Senators tends to dilute the strength, and representative function of the Faculty Senate and introduces possible fragmentation of faculty interests as a whole; and

WHEREAS the President is on record as desiring that the representative function of the Faculty Senate "not be affected" by future administrative actions; and

WHEREAS second and third-year Senators should be more than competent to serve one-year terms on the Council by virtue of their experience in faculty governance;

THEREFORE be it resolved that the Faculty Senate urges changing the make-up of the proposed University Council to include Faculty Senate representation from each of the Colleges, those members being elected by the Senate in April to serve one-year terms each, and that the College from which the President of the Faculty Senate is chosen, also be represented in like manner by a regular Senator.

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The discussion revealed general support for both the concern expressed by the resolution and the basic proposal with regard to faculty representation and selection. However, a motion to table was made in order for the Ad Hoc Committee already created (above) to deal with the matter in the course of its deliberations. The motion to table was approved. A consensus was evident that President Atchley was not giving enough time for a proper response to the proposals for improved faculty governance.

Senator West introduced FS-79-10-2 and moved its adoption.

FS-79-10-2

Resolution:

WHEREAS the University has created a council and committee structure for advising the University Administration on certain Policy areas, and

WHEREAS the functions and functioning of the University's Councils and Committees does vary from year to year, and

WHEREAS the University's needs for advice in policy areas does vary from year to year, therefore

BE IT RESOLVED that the Faculty Senate initiate a study through the Ad Hoc Committee of the minutes for all University Councils and Committees that include faculty participation (see Faculty Manual pages 22-32), that will provide data for Senate recommendations concerning future University councils or committees listing.

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Whereas it was noted that the proposed University Council might make this action redundant, it was agreed that the need to study this problem is real and the University Council is not guaranteed, therefore, the resolution was passed.

Senator West then introduced FS-79-10-3 and moved its adoption:

FS-79-10-3

Resolution:

WHEREAS the present tenure policy relegates certain individuals to second-class faculty citizenship, for they are "permanent" but non-tenure-track professionals, and

WHEREAS the present policy is not in the best interests of individual instructors as it may (and has) served to impede such individuals' professional careers, and

WHEREAS the present policy is not in the best interests of the University because it allows decision-making to be indefinitely postponed and can encourage the retention of less professionally qualified and successful faculty,

THEREFORE BE IT RESOLVED that the Faculty Manual (page 34) be amended to read "Faculty with the rank of Instructor or higher and professional librarians are eligible for tenure.", and Faculty Manual (page 35) be amended so as to drop the phrase (line 5), "and above the rank of Instructor," so as to require that the seven-year maximum for tenure consideration be applied to all faculty rank, and

BE IT FURTHER RESOLVED that the amended faculty manual provision become effective July 1, 1981.

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A spirited debate revealed the enormous complexity of the problems addressed by the resolution. Further, the whole issue may have been mooted by the S. C. Attorney General's ruling cited in the President's Report (See pages 7-11 of these Minutes). Therefore, a motion to table the resolution was introduced and passed.

A motion to involve faculty in the discussion of the uses of the University's recreation facilities was made by Senator Grubb. It was withdrawn in lieu of a proposed study by the Welfare Committee which will be directed toward the inclusion of Faculty Senate input into such decisions.

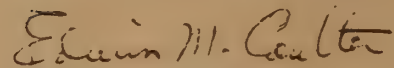
8. Announcements:

The Advisory Committee will meet at 1:25 p.m., Thursday in Room 411 Strode. The President commends the "Faculty Forum" organized by the Rev. Sidney Hall of the BSU to all faculty.

9. Adjournment:

The Senate adjourned at 6:17 p.m.

Respectfully Submitted,

A handwritten signature in cursive script, reading "Edwin M. Coulter".

Edwin M. Coulter
Secretary

Members Absent: None

EMC/lm

Enclosures

**CLEMSON**
UNIVERSITY

STUDENT GOVERNMENT

RESOLUTION NO. R-79-80-12
1979-1980 Clemson University Student SenateDate Submitted 10/4/79
Date Approved 10/8/79

WORKING COMMITTEE BETWEEN TWO SENATES

WHEREAS, a working committee could allow both senates to be less biased, and

WHEREAS, the committee would only be advisory and not policy making, and

WHEREAS, there are presently three issues that should be discussed jointly, the drop period, the Dean Hurst replacement committee, and the graduation ceremonies procedure,

BE IT RESOLVED, by the Clemson University Student Senate in regular session assemble the following:

That a standing committee be set up between the faculty and student senators with co-chairman, one from each, to discuss resolutions that are of mutual interest.



Jovi Anderson
President of the Student Senate

Copies to:

Dr. William L. Atchley
Dean Walter T. Cox
Dean George E. Coakley
Dean Susan G. DelonyThe Tiger
WSBF
Dr. Horace Fleming

CLEMSON
UNIVERSITY

STUDENT GOVERNMENT

RESOLUTION NO. R-79-80-8
1979-1980 Clemson University Student Senate

Date Submitted 10/4-79
Date Approved 10/8/79

COMMITTEE REPRESENTATION

WHEREAS, the Vice President for Academic Affairs and Dean of the University is retiring at the end of the 1979-1980 academic year, and

WHEREAS, this is a position that affects academic policy in under graduate and graduate level, and

WHEREAS, Student Government showed fine representation and responsibility in helping to elect a President of the University,

BE IT RESOLVED, by the Clemson University Student Senate in regular session assembled the following:

That the President of the Student Body appoint a student, approved by the Senate, to serve on the selection committee as a full voting member, and the President of the Student Body serve as an ex-officio member.



Jeff Anderson
President of the Student Senate

Copies to:

Dr. William L. Atchley
Dean Walter T. Cox
Dean George E. Coakley
Dean Susan G. Delony
Dean Kenneth Vickery

The Tiger
WSBF
Dean Victor Hurst
Dr. Horace Fleming



CLEMSON
UNIVERSITY

PRESIDENT

October 12, 1979

MEMORANDUM FOR : Vice Presidents, Deans, Directors,
Department Heads, Faculty Senate, Student
Senate and Graduate Student Association

SUBJECT : Proposals for Improved University Governance

I have concluded that the top Council in the University, the Educational Council, has served in a very limited way in the development of University policies in the past. I believe it would be more helpful to me to have a broader input which will include the views of all segments of the University. Accordingly, I wish to propose for your consideration and comment the dissolution of the Educational Council and the establishment of the University Council with the following membership:

President
Vice President for Academic Affairs
Vice President for Student Affairs
Vice President for Business and Finance
Vice President for Executive Affairs
Vice President for Development
Dean of Graduate Studies & University Research
Dean of Admissions & Registration
University Librarian
Director of University Relations
* University Staff Member
President of the Faculty Senate
President of the Student Body
President of the Graduate Student Association
President of the Student Senate
For 1980-83:

Dean of Agricultural Sciences
Dean of Architecture
Dean of Education

** [Senator from Engineering
Senator from Forest & Recreation Resources
Senator from Industrial Management & Textile Science

*** [Faculty from Liberal Arts
Faculty from Nursing
Faculty from Sciences

MEMO: Vice Presidents, et. al.
SUBJECT: Proposal ... University Council
October 12, 1979
Page -2-

The purpose of the University Council would be to assist the President in formulating and implementing University policy with a view to ensuring that Clemson University always strives effectively to reach its goals of (1) providing an environment conducive to the growth of learning, teaching, scholarship, research and service, and (2) anticipating and meeting the educational needs of society in general and the State of South Carolina and the nation in particular.

I foresee the Council functioning to advise the President on matters of University governance; to accept functions and authority delegated to it by the President; to review and make recommendations on matters proposed by the faculty, staff, students, administration, Faculty Senate, Student Senate and the various University committees; and, in turn, to refer appropriate matters to the Senates, committees, groups and individuals for their consideration and recommendation.

To assist the University Council, I contemplate a strong second-tier structure of committees (perhaps another name, such as Commission, would be better) through which undergraduate, graduate, research and extension, faculty, and student affairs would pass to the Council. These bodies, perhaps 4 in number, would also have broad membership representation and would, in turn, receive input from the University committees having cognizance of related subject matter.

Finally, I would suggest that we take a close look at the functions and usefulness of the 32 councils and committees listed in the FACULTY MANUAL with a view to elimination and consolidation and the possible need for new committees.

I would not want us to become bogged down in procedural red-tape and paperwork. Rather, I envision a simple standard format for the minutes of the Council, the second-tier bodies and the committees which would facilitate ready understanding by interested parties of the actions and recommendations of the particular body.

The status and functions of the Student Senate, the Faculty Senate and the Graduate Student Association would not be affected by the proposed changes. Further, these proposals are simply proposals at this time. I welcome and I expect to receive constructive comments and suggestions. However, I do ask that your responses be in writing and be submitted to me by November 30, 1979.

MEMO: Vice Presidents, et. al.
SUBJECT: Proposal ... University Council
October 12, 1979
Page -3-

If there is general concurrence with the establishment of the University Council to function as indicated above, I will appoint a subcommittee of the Council to work on fleshing out the second-tier concept which would then be presented to the addressees of this memorandum for further comment and recommendation.


Bill L. Atchley
President

BLA/sf
Attachment

-
- * Appointed by President for 3-year term.
 - ** Appointed by President of Faculty Senate.
 - *** Appointed by President on recommendation of Dean of College.

OF

Deans (D) - Senators (S) - Faculty (F)

YEAR:	1	2	3	4	5	6	7	8
Agricultural Sciences	D	F	F	F	S	S	S	D
Architecture	D	D	F	F	F	S	S	S
Education	D	D	D	F	F	F	S	S
Engineering	S	D	D	D	F	F	F	S
Forest & Recreation Resources	S	S	D	D	D	F	F	F
Liberal Arts	S	S	S	D	D	D	F	F
Nursing	F	F	S	S	S	D	D	D
Sciences	F	F	F	S	S	S	D	D

Clemson University
Clemson, South Carolina

MINUTES

of the meeting of
THE EDUCATIONAL COUNCIL

September 3, 1979

<u>Present:</u> Bill L. Atchley, <u>presiding</u> Ben W. Anderson Luther P. Anderson Melvin E. Barnette Benton H. Box H. Morris Cox Walter T. Cox Horace W. Fleming, Jr. J. W. Gordon Gourlay Jerome V. Reel Victor Hurst Geraldine Labecki	Harold F. Landrith John Allen Harlan E. McClure Joseph B. McDevitt Stanley G. Nicholas A. E. Schwartz Wallace D. Trevillian K. N. Vickery Henry E. Vogel Lyle C. Wilcox S. M. Willis E. N. Tyndall, <u>Secretary</u>
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1. Minutes

The minutes of the meeting of May 25, 1979, were approved as submitted.

2. Academic Matters by Colleges:

Statement and Recommendations: The Dean of the University recommended the following:

A. COLLEGE OF EDUCATION

(1) Curriculum Revision: Effective, Fall 1980

Vocational-Technical Education Option

(ATTACHMENT 1) p. 3

Industrial Arts Education Option

(ATTACHMENT 2) p. 4

Education for Industry Option

(ATTACHMENT 3) p. 5

B. COLLEGE OF FOREST & RECREATION RESOURCES

*(1) New Graduate Course:

RPA	705	Recreation Water Resources	3 (3,0)
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*Approved by Mail Ballot, August 21, 1979

Action: APPROVED

E. N. Tyndall

E. N. Tyndall, Secretary

Effective: Fall 1980

VOCATIONAL-TECHNICAL EDUCATION OPTION

FRESHMAN YEAR

<u>First Semester</u>				<u>Second Semester</u>			
INED	101	Intro to InEd	1 (1,0)	INED	105	Machining Prac.	3 (1,6)
INED	102	Woodworking I	2 (1,3)	INED	107	Drafting InEd II	2 (0,6)
ED	100	Orientation	1 (1,0)	ENGL	102	Engl Comp	3 (3,0)
INED	106	Drafting InEd I	2 (0,6)	¹ SCIENCE		ELECTIVE	4 (3,3)
ENGL	101	Engl Comp	3 (3,0)	² SOC SCI		ELECTIVE	3 (3,0)
MATH	104	Trigonometry	2 (2,0)	⁴ ELECTIVE			1
¹ SCIENCE		ELECTIVE	4 (3,3)				
⁴ ELECTIVE			<u>1</u>				
			16				<u>16</u>

SOPHOMORE YEAR

INED	203	Basic Metal Proc	3 (1,6)	INED	204	Graphic Arts	3 (1,6)
INED	205	Power Technology	3 (2,2)	INED	208	Electricity	3 (2,3)
³ LIT		REQUIREMENT	3 (3,0)	ENGL	301	Public Speaking	3 (3,0)
¹ SCIENCE		ELECTIVE	4 (3,3)	⁴ MUSIC	210	Music Appreciation	3 (3,0)
² SOC SCI		ELECTIVE	3 (3,0)	⁴ ELECTIVE		<u>3</u>	
			<u>16</u>			15	

SUMMER

INED 350 Ind. Cooperative Experience - 6

JUNIOR YEAR

INED	302	Dwell Mat & Const.	2 (1,2)	INED	416	Man & Oper of InEd	3 (2,2)
ED	302	Ed Psychology	3 (3,0)			Labs	
² SOC SCI		ELECTIVE	3 (3,0)	ED	458	Health Education	3 (3,0)
⁴ ELECTIVE			4 (4,0)	² SOC SCI		ELECTIVE	3 (3,0)
ELECTIVE	(Area of Spec)	3 (3,0)	<u>15</u>	ELECTIVE	(Area of Spec)	3 (3,0)	
				⁴ ELECTIVE		<u>3</u>	
						15	

SUMMER

INED 450 InEd. Cooperative Experience - 6

SENIOR YEAR

INED	422	Hist & Phil of InEd	3 (3,0)	INED	405	Course Org/Eval	3 (3,0)
INED	441	Camp Lab Field Exp	2 (1,3)	INED	425	Teaching Ind Sub	3 (3,0)
ED	498	Tchg. Sec. Sch. Read.	3 (1,4)	INED	402	Directed Teaching	6 (0,18)
CAAH	303	Evol of Vis Arts I	3 (3,0)	ED	335	Adol Grow & Dev	3 (3,0)
ELECTIVE	(Area of Spec)	4 (4,0)	<u>15</u>				<u>15</u>

TOTAL CREDITS - 135

¹Science Electives to be selected from Astronomy, Chemistry, Physics, Geology, Biology or Physical Science. At least two fields must be represented, one of which must be in the biological sciences.

²Social Science Electives to be selected from History, Sociology, Economics, Geography, Psychology, Political Science, Religion, or Philosophy. At least two fields must be represented, with six, but not more than six, hours in one field.

³To be selected from the following: ENG 202, 203, 204, 205, 206, 207, 208, 209

INDUSTRIAL ARTS EDUCATION OPTION

FRESHMAN YEAR

<u>First Semester</u>			<u>Second Semester</u>		
INED	101 Intro to InEd	1 (1,0)	INED	103 Woodworking II	2 (1,3)
INED	102 Woodworking	2 (1,3)	INED	105 Machining Prac	3 (1,6)
ED	100 Orientation	1 (1,0)	INED	107 Drafting InEd II	2 (0,6)
INED	106 Drafting InEd I	2 (0,6)	ENGL	102 Engl Comp	3 (3,0)
ENGL	101 Engl Comp	3 (3,0)	SCIENCE	ELECTIVE	4 (3,3)
MATH	104 Trigonometry	2 (2,0)	⁴ ELECTIVE		2
¹ SCIENCE	ELECTIVE	4 (3,3)			
⁴ ELECTIVE		<u>1</u>			
		16			<u>16</u>

SOPHOMORE YEAR

INED	203 Basic Metal Proc	3 (1,6)	INED	204 Graphic Arts	3 (1,6)
³ INED	205 Power Technology	3 (2,2)	INED	208 Electricity	3 (2,3)
LIT	REQUIREMENT	3 (3,0)	INED	313 Arts & Crafts	3 (1,6)
¹ SCIENCE	ELECTIVE	4 (3,3)	MUSIC	210 Music Appreciation	3 (3,0)
² SOC SCI	ELECTIVE	3 (3,0)	² SOC SCI	ELECTIVE	3 (3,0)
⁴ ELECTIVE		<u>1</u>	⁴ ELECTIVE		<u>2</u>
		17			<u>17</u>

JUNIOR YEAR

INED	302 Dwell Mat & Const	2 (1,2)	INED	416 Man & Operation	3 (2,2)
INED	414 Electron for Teachers	3 (1,6)		of Indus Edu Labs	
ED	302 Ed Psychology	3 (3,0)	ED	458 Health Educ	3 (3,0)
² SOC SCI	ELECTIVE	3 (3,0)	ENGL	301 Public Speaking	3 (3,0)
⁴ TEXT	460 Textile Processes	3 (3,0)	² SOC SCI	ELECTIVE	3 (3,0)
ELECTIVE		<u>5</u>	⁴ ELECTIVE		<u>6</u>
		19			<u>18</u>

SENIOR YEAR

INED	422 Hist & Phil	3 (3,0)	INED	405 Course Org & Eval	3 (3,0)
INED	441 Comp Lab Field Exp	2 (1,3)	INED	425 Teaching Ind Sub	3 (3,0)
ED	498 Tchg. Sec. Sch. Read	3 (1,4)	INED	402 Directed Teaching	6 (0,18)
CAAH	303 Evol of Vis Arts I	3 (3,0)	ED	335 Adol Grow & Dev	3 (3,0)
⁴ ELECTIVE		<u>6</u>			
		17			<u>15</u>

TOTAL SEMESTER HOURS - 135

¹Science Electives to be selected from Astronomy, Chemistry, Physics, Geology, Biology, or Physical Science. At least two fields must be represented, one of which must be in the biological sciences.

²Social Science electives to be selected from History, Sociology, Economics, Geography, Psychology, Political Science, Religion, or Philosophy. At least two fields must be represented, with six; but not more than six, hours in one field.

³To be selected from the following: Eng 202, 203, 204, 205, 206, 207, 208, 209

⁴See Class Adviser for electives.

EDUCATION FOR INDUSTRY OPTION

FRESHMAN YEAR

<u>First Semester</u>			<u>Second Semester</u>		
INED	101	Intro to InEd	1	(1,0)	
INED	102	Woodworking	2	(1,3)	
INED	106	Drafting InEd I	2	(0,6)	
ENGL	101	Engl Comp	3	(3,0)	
MATH	104	Trigonometry	2	(2,0)	
¹ SCIENCE		ELECTIVE	4	(3,3)	
⁴ ELECTIVE			<u>1</u>		
			15		15

SOPHOMORE YEAR

INED	203	Basic Metal Proc	3	(1,6)	
³ LIT		REQUIREMENT	3	(3,0)	
SOC	201	Soc. Perspective	3	(3,0)	
¹ SCI		ELECTIVE	4	(3,3)	
² SOC SCI		ELECTIVE	3	(3,0)	
⁴ ELECTIVE			<u>1</u>		
			17		18

JUNIOR YEAR

INED	302	Dwell Mat & Constr	2	(1,2)	
INED	325	Ind Org & People	3	(3,0)	
ECON	301	Econ of Labor	3	(3,0)	
ED	302	Ed Psychology	3	(3,0)	
IM	201	Intro to Ind Mgt	3	(3,0)	
⁴ ELECTIVE			<u>3</u>		
			17		18

SENIOR YEAR

INED	408	Train Progs	3	(3,0)	
INED	422	Hist & Phil of InEd	3	(3,0)	
IM	408	Work Simp & Stand	3	(3,0)	
TEXT	460	Textile Processes	3	(3,0)	
⁴ ELECTIVE			<u>6</u>		
			18		17

TOTAL SEMESTER HOURS - 135

¹Science Electives to be selected from Astronomy, Chemistry, Physics, Geology, Biology, or Physical Science. At least two fields must be represented.

²Social Science electives to be selected from History, Sociology, Economics, Psychology, Political Science, Religion, Philosophy, or Geography.

³To be selected from the following: ENG 202, 203, 204, 205, 206, 207, 208, 209

⁴See Class Adviser for electives.

Note: One summer (400 clockhours) of field experience is required of each student following the completion of his sophomore year.

MINUTES OF THE UNIVERSITY AUDIO-VISUAL COMMITTEE MEETING, OCTOBER 25, 1979

Present: T. F. Collins, M. F. Barber,
D. Y. Brannock, R. C. Davenport, T. W.
Dimond, L. H. Blanton, T. E. Burke, D. W.
Blair, W. A. Shain, W. H. Durham.

Absent: R. G. Halfacre, D. B. Luke,
M. R. Weber.

Presiding: T. F. Collins

Minutes of the Oct. 1, 1979, meeting
were read and approved.

Barber discussed results of her subcommittee meeting (on the subject of a University film/video cassette bank) with Library officials J.W.G. Gourlay and R. W. Meyer. The following points were made:

- 1) Is there a need for such a depository?
- 2) Is one statewide depository sufficient?
- 3) What and how much software is required?
- 4) What and how much hardware is required?
- 5) Who could use the depository materials?
- 6) What arrangements are necessary for replacement of items in the depository?
- 7) What staffing is required?
- 8) What policies are necessary for proper

return of borrowed equipment?

- 9) Isn't the Communications Center appropriate as a depository?

Barber recommended a survey to ascertain interest within the University in a media bank of general interest items. Chairman Collins appointed Barber and Blanton as co-chairpersons with Durham as ex officio member to make recommendations on a University Audio-Visual materials (software) Bank.

After discussing the spring 1980 Communications Center Evaluation, Collins named the evaluating committee: Blair, chairman; Brannock; and Davenport.

Burke presented aspects of a proposed Audio-Visual Seminar Workshop; recommended was a "hands on" slide sound system seminar to be presented on a limited basis for spring 1980, but which could be expanded to a University-wide project in 1981. The chairman appointed Burke to chair a Planning Subcommittee; members: Dimond, Shain, Durham (ex officio). The report of the subcommittee has a due date of the next committee meeting scheduled for Monday, November 19, 1979, in 108 Strode Tower at 4 p.m.

Respectfully submitted,
D. Y. Brannock, Jr., Secretary

Calendar of Campus Events

JANUARY 1980

- 2 -- Basketball: UNC (Men), Littlejohn Coliseum, 8 p.m.
- 3-4 -- Seminar: "Stress Management." Presents techniques useful in coping more creatively and effectively with the stresses of modern life. Sponsored by Counseling Center, open to faculty and staff. Call 656-2451 for more information.
- 3 -- Shortcourse: "Meeting Yourself Halfway--Meeting Others Halfway." Verbal and written exercises will be utilized to aid participants in self-understanding while getting to know others. Sponsored by Counseling Center, open to faculty and staff. Call 656-2451 for more information.
- 6 -- Dorms open 10:00 a.m.
- 7 -- Orientation, new students.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 7-31 -- Performing Artist T-Shirt Sale. Sponsored by University Union, Program Office, 8:30 a.m. - 4:30 p.m. Open to the public, call 656-2461 for more information.
- 7-31 -- Videotape: "Stevie Wonder." Sponsored by University Union, loggia, shown several times daily.
- 8 -- Midnight Movie: "Same Time Next Year." Sponsored by University Union, YMCA Theater, \$1 admission charge.
- 8 -- Registration, all students.
- 8 -- Banjo and Guitar Picking. Sponsored by University Union, loggia, noon - 1 p.m.
- 8 -- Seminar: "Evaluation, Accountability, Analysis and Problems of Generating Support for Agricultural Economics Research" by Dr. Bobby R. Eddleman, director of planning and coordination, U. S. Department of Agriculture. Sponsored by Department of Agricultural Economics and Rural Sociology, P&AS Auditorium, 2 p.m. Open to the public, no admission charge.
- 9 -- Basketball: Duke University (Women), Littlejohn Coliseum, 5:45 p.m.
- 9 -- Basketball: Duke University (Men), Littlejohn Coliseum, 8 p.m.
- 9 -- Day Trip to Sugar Mountain. Sponsored by University Union, details and sign up at Union Information Desk, University I.D. required.
- 9 -- Reach for the Beach Day. Sponsored by University Union, Union Gallery, 10 a.m. - 2 p.m.
- 9 -- Open House: Counseling Center, mobile unit across from Redfern Health Center, 8 a.m. - noon. Open to faculty and staff, refreshments will be served.
- 9 -- Tapestry Sale by Mike Morrell. Sponsored by University Union, outside Palmetto Room of Union.
- 9-10 -- Farm Credit Seminar. Sponsored by Agricultural Economics and Rural Sociology Department and Production Credit Association--Federal Land Bank Association. Clemson House, 1 p.m. Jan 9 until noon Jan. 10. Open to all bankers, no admission charge.
- 10 -- Midnight Games. Sponsored by University Union, Game Room of Union. University I.D. required, early bird rates.
- 10 -- Classes begin regular schedule.
- 11 -- Last day to sign up for Daytona Trip. Sponsored by University Union, details and sign up at Union Information Desk.
- 11-12 -- Edgar's: "Silent Partner." Sponsored by University Union, Edgar's, 9 p.m., 50¢ admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 11-12 -- Basketball: Clemson Invitational Tournament (Women), Littlejohn Coliseum. Mississippi University for Women vs. East Carolina, Jan. 11, 6 p.m. Clemson vs. James Madison, Jan. 11, 8 p.m. Playoffs Jan. 12, 6 and 8 p.m.
- 11-24 -- Art Exhibition: "Clemson Art Faculty Show." Recent work by the nine studio faculty of the Department of History and Visual Studies. Sponsored by the College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. Open to the public, no admission charge.
- 13 -- Free Flick: "Butterflies Are Free." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 14 -- French Film. Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 14 -- Videotape: "Comedy Tonight." Sponsored by University Union, loggia, shown several times daily.
- 15 -- Concert: Peggy Rostron, pianist. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 16 -- Edgar's: "Soft is the Heart of the Child" and "Laurel and Hardee Show" brown bag special. Sponsored by University Union, Edgar's, noon - 1 p.m.
- 16 -- Backgammon Tournament. Sponsored by University Union, Edgar's, 3:30 p.m.
- 16 -- Coffeehouse: "Elaine Silver." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 17 -- Distinguished Chemical Industry Business Seminar: Mr. Robert J. Dille, director of corporate purchasing-production materials, Eli Lilly & Co. Sponsored by Chemistry and Geology Department, Earle Hall Auditorium, 1:25 p.m. and 131 Brackett Hall, 4:30 p.m. Open to the public, no admission charge.
- 17 -- Table Tennis Tournament (Women). Sponsored by University Union, Game Room of Union, 8 p.m.
- 19 -- Basketball: University of Virginia (Men), Littlejohn Coliseum, 1 p.m.
- 19 -- Basketball: University of Virginia (Women), Littlejohn Coliseum, 3 p.m.
- 20 -- Free Flick: "The Green Berets." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 20 -- Snow Photography Trip. Sponsored by University Union. Details at Union Information Desk.
- 21 -- Table Tennis Tournament (Men). Sponsored by University Union, Game Room of Union, 7:30 p.m.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 21-27 -- Videotape: "Mary Jane Grows Up." Sponsored by University Union, loggia, shown several times daily.
- 22 -- Performing Artist Series: Muriel Bach in "Freud Never Said It Was Easy." Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public, \$1.50 admission charge. Details at Union Information Desk.
- 23 -- Basketball: Mercer (Women), Littlejohn Coliseum, 5:45 p.m.
- 23 -- Basketball: Furman (Men), Littlejohn Coliseum, 8 p.m.
- 23-24 -- Coffeehouse: "Scott Doss." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 24 -- English Hour Lecture: "Angles We Have Heard on Frye" by Dr. Elisa K. Sparks. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 24 -- Edgar's: "Comedy Store." Sponsored by University Union, Edgar's, 9 p.m. University I.D. required, \$1 admission charge.
- 26-27 -- Cross Country Skiing Trip. Sponsored by University Union, details and sign up at Union Information Desk.
- 27 -- Free Flick: "Anderson Tapes." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 28 -- Spanish Film. Sponsored by Department of Languages, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 28 -- Botany Club Plant Sale. Sponsored by University Union, Palmetto Room of Union, 10:30 a.m. - 7 p.m.
- 28-2/3 -- Videotape: "Second City Revue." Sponsored by University Union, loggia, shown several times daily.
- 28-2/8 -- Room Change Period. Submit application to the Housing Office, 8 a.m. - 4:30 p.m.
- 29 -- Concert: The Gregg Smith Singers. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Open to the public, admission by Student Use Card, season tickets, or individual tickets on sale at gate.
- 29 -- ACU-I Billiards Tournament. Sponsored by University Union, Game Room of Union, 7:30 p.m.
- 30 -- Brown Bag Special. Sponsored by University Union, Edgar's, noon - 1 p.m.
- 30-31 -- Coffeehouse: "David Bethany." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 31 -- Basketball: Georgia Tech (Women), Littlejohn Coliseum, 6:45 p.m.
- 31 -- Basketball: Georgia Tech (Men), Littlejohn Coliseum, 9 p.m.

DUE TO THE HOLIDAY SCHEDULE, THERE
WILL BE NO JANUARY 1, 1980, NEWSLETTER

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY



Vol. 19 No. 10

January 15, 1980

630 GRADUATE AT MID-YEAR COMMENCEMENT

Clemson University President Bill Atchley conferred 630 degrees during mid-year graduation exercises Dec. 20.

Making the commencement address was Gene Budig, president of West Virginia University, under whom Atchley served as dean of engineering before being named Clemson's ninth chief executive.

Budig told the graduates they must use the intellectual skills gained through their college training to "stand for increased and equal opportunities for others in higher education."

He said today's graduates should use their skills in "carefully explaining the economic value of their education and its contribution to their total worth as human beings."

Budig also cautioned the graduates not to consider their education complete now that they have earned a college degree. "The wise person realizes that he or she has received only the tools for advancement and that these tools should be kept in good repair."

Budig said studies predict that today's graduate will change jobs an average of three times during a career, and added that this is evidence of the advancement higher and continuing education make possible. He told the graduates they must always remember that "knowledge and desire are an unbeatable combination."

Among the degrees awarded were 24 master's and education specialists, and 12 Ph.D.'s. Three Air Force and two Army commissions were also awarded during ROTC ceremonies. The University has awarded 42,529 degrees since its first commencement in 1896.



SWICEGOOD TO LEAD CLEMSON EXTENSION HOME ECONOMICS

A North Carolinian has been named state leader for Clemson Extension Service home economics programs in South Carolina.

She is Dr. Myrle Lutterloh Swicegood of Raleigh. In making the announcement, Extension Director Dr. Wayne T. O'Dell said Swicegood will direct the 13-member Home Economics Department staff headquartered at Clemson and supervise programs for over 100 county home economics agents throughout the state.

The department administers Extension adult and youth programs in clothing, nutrition, family resource management, housing, home furnishings and other aspects of family life.

Swicegood holds an M.S. degree from North Carolina State University and a B.A. and Ph.D. from the University of North Carolina. She previously served as a district program leader and Extension professor at N.C. State University.

WEPR TO AIR ENERGY SERIES

Beginning Feb. 3, WEPR (90.1 FM) will air an eight-part series on energy entitled "Energy and the Way We Live." Broadcast in conjunction with National Public Radio and a National Issues Forum sponsored by

the American Association of Community and Junior Colleges, the half-hour segments can be heard on Sundays at 6 p.m. and Tuesdays at 3:30 p.m. for eight consecutive weeks.

The eighth program focuses on South Carolina needs and research and was written by Margaret Callison Pridgen, Clemson University science editor, and produced by Bo Bierley, WEPR program director.

Program titles suggest the range of issues which will be addressed during the series. They are, in broadcast order: "The Energy Crisis: Myth or Reality?"; "What Are the Realistic Alternatives?"; "Can America, the Saudi Arabia of Coal, Dig Its Way Out of the Energy Crisis?"; "A Solar Powered America--Panacea or Daydream?"; "Gassing Up with 'Corn Likker'"; "The Making of Energy Policy, or Who Will Get How Much When?"; "A Bicycle Built for Four?--Life Styles in the Post-Petroleum Age"; and "Palmetto Profile: Are We Any Different from the Rest of the Country?"

With studios at the University, WEPR is the upstate affiliate for the National Public Radio Network and the South Carolina Educational Radio Network.

CORPORATIONS SUPPORT ENGINEERING PROGRAMS

Engineering programs at Clemson have been given \$11,300 in separate gifts from Union Carbide Corp. and the Exxon USA Foundation.

President Bill L. Atchley accepted checks from Union Carbide college relations representative Andrea Zava of Oak Ridge, Tenn., totalling \$4,000 to the Chemical Engineering Department, \$3,000 to the College of Engineering and \$100 each to the student chapters of the American Institute of Chemical Engineers, American Society of Mechanical Engineers and the Society of Women Engineers.

Also, Exxon's J. Bennette Cornwell of Greenville presented checks of \$2,000 to the Chemical Engineering Department, and

\$1,000 each to the Department of Mechanical Engineering and Electrical and Computer Engineering.

The engineering departments use gifts such as these to support faculty and student research, travel to professional meetings and other activities to improve quality of the department.

SELF-STUDY STEERING COMMITTEE

President Atchley has appointed the following University Self-Study Steering Committee:

Dr. J. E. Clark, associate professor of civil engineering, chairman; Professor F. L. Day, associate professor of English, editor and secretary; Professor J. G. LaTorre, assistant professor of mathematical sciences; and Dr. J.C.O. Nyankori, assistant professor of agricultural economics and rural sociology.

Also, Mr. K. N. Vickery, assistant vice president for student affairs and dean of admissions and registration; Dr. J. L. Strom, director, planning and corporate relations; Mr. J. N. Wilson, assistant vice president, facilitating services; Mr. H. W. Kirkland, undergraduate student; and Mr. D. W. Kraus, president, Graduate Student Association.

The Committee began deliberations this month. Visitation dates by a Southern Association team will be September 27-30, 1981.

ACCOUNTING AND FINANCE

G. Thomas Friedlob (Asst Prof) presented a paper, "An Exploratory Analysis for Developing a Predictive Model of Competence in Accounting Principles," at the 11th national meeting for the American Institute of Decision Sciences in New Orleans, LA, Nov. 19-21. This paper was published in AIDS 1979 Proceedings, Vol. 1. Prof. Friedlob's co-author was Robert M. Consenza (Asst Prof, Memphis State Univ).

Robert Rouse (Assoc Prof) served as a discussion leader for a Staff Training Program (Level I) sponsored by the American Institute of Certified Public Accountants in Cleveland, OH, Dec. 10-14.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

The following faculty members participated in the Agricultural Lands Study Workshop sponsored by U.S.D.A. November 12-14 in Burlington, NC: B. L. Dillman (Prof), J. E. Faris (Prof and Hd), M. L. Wise (Asst Prof) and E. D. Wynn (Assoc Prof). Prof. Wise also chaired a discussion group at the meeting.

CHEMICAL ENGINEERING

S. S. Melsheimer (Assoc Prof) attended the 72nd Annual AIChE Meeting Nov. 25-29 in San Francisco, CA. Prof. Melsheimer chaired or co-chaired three technical sessions on "Solar Energy--Fundamentals and Applications." He also presented a paper, "Extended Cycling Behavior of a Direct Contact - PCM Thermal Energy Storage System," co-authored by D. D. Edie (Assoc Prof) and A. D. Mills (former Grad Stu).

CHEMISTRY AND GEOLOGY

R. A. Abramovitch (Prof and Hd), Dorota A. Abramovitch (Grad Stu) and P. Tomasik (Agricultural University of Cracow) published a paper, "Direct Side-Chain Acylation of 4-Picoline-1-oxides and Related Compounds," in J.C.S. Chem. Comm. 1979, 956.

CIVIL ENGINEERING

The Department of Civil Engineering received the 1979 Outstanding Transportation Achievement Award presented Dec. 3 in Columbia by the South Carolina Division, Southern Section, Institute of Transportation Engineers. This award is given annually to a governmental organization or agency which has made

noteworthy accomplishments in the field of transportation engineering in the state of South Carolina.

The department was cited for research activities in traffic safety and highway engineering, teaching activities in traffic and transportation engineering, continuing engineering education courses, and strong support of South Carolina Division, SSITE activities. The faculty members involved in the activities cited in the award include J. Edwin Clark, Donald B. Stafford, and J. Larry Josey (Assoc Profs).

Profs. Clark and Josey have been awarded a grant by the S. C. Highway Safety Program for a continuation of a project entitled "Problem Identification and Countermeasure Evaluation of SC Traffic Accidents." The total funds awarded amount to \$73,296.

ECONOMICS

W. C. Whitten (Prof) was recently elected chairman of the Program Committee for the Cash Management Association of South Carolina.

Bruce Yandle (Prof) published "Frustration on the Commons," Public Finance, Vol. 34, No. 2, 1979, pp. 267-276; "The Evolution of EPA's Grain Dust Standard," Nebraska Journal of Economics and Business, Vol. 18, No. 3, pp. 31-39; and is the author of a special report, "Alternative Systems for Allocating Air Quality: The Prevention of Significant Deterioration," published by the Council on Wage and Price Stability, Executive Office of the President, Washington, DC.

Prof. Yandle participated in E. I. DuPont's semi-annual Environmental Affairs Forum in Wilmington, DE, Oct. 25, where he reported on research conducted at Clemson on the cost of controlling gaseous hydrocarbon emissions.

Prof. Yandle and M. T. Maloney (Assoc Prof) have been named by the National Commission on Air Quality as members of a cost methodology panel. They will be

preparing an analysis of techniques for estimating emission control costs.

ENGLISH

Three members of the English faculty contributed biographical sketches to Southern Writers: A Biographical Dictionary, Baton Rouge: LSU Press, 1979. John Idol (Assoc Prof) wrote the sketches for Mary Boykin Miller Chesnut, James McBride Dabbs, and Theodore O'Hara; B. N. Skardon (Asst Prof), for William Elliott; and Harold Woodell (Assoc Prof), for Rebecca Harding Davis, William Price Fox, Jr., Archibald Rutledge, and Charles Henry Smith. Harriet R. Holman (Prof Emeritus) also contributed to the volume.

Prof. Idol and Sterling Eisiminger (Asst Prof) published "A Preliminary List of Operas Based on Hawthorne's Fiction" in The Hawthorne Society Newsletter, 5 (Fall 1979), 5-6. Prof. Idol also recently discussed writing subjects with the Advanced Placement Composition class at Easley High School.

ENGINEERING TECHNOLOGY

D. L. Ryan (Assoc Prof) served as chairman for the CEE seminar on "Automated Drafting and Computer Graphics," Nov. 28 and 29.

Prof. Ryan has recently received notice that Marcel-Dekker, Inc. has accepted his manuscript, Computer-Aided Machine Design. It will be published in two parts, "Kinematics" and "Computer Design of Elements." The new text is based on a Clemson undergraduate course, EG 410.

Carl R. Lindenmeyer (Assoc Prof) and James A. Chisman (Prof and Actg Hd) presented a one-day Continuing Engineering Education seminar on "Work Sampling: Classical Concepts and Computer-Aided Application," Dec. 13.

FOOD SCIENCE

Charles V. Morr (Stender Prof) participated in an NSF project review, "Membrane

Isolation Procedures for the Recovery of Protein from Oilseed Flours," at Texas A&M University, College Station, TX, Oct. 4.

FORESTRY

G. D. Kessler (Prof) was awarded a certificate of appreciation by the American Forestry Association for his services toward the advancement of intelligent management of forests and related resources.

The following individuals presented workshops at the annual meeting of the American Forestry Association held in Charleston: G. E. Sabin (Assoc Prof) - Marketing; J. B. Cody (Assoc Prof) and S. K. Nodine (Instr) - Forestry as an Investment; and G. W. Wood (Assoc Prof) - Wildlife Management.

Prof. Kessler served as chairman and J. L. Haymond (Instr) served as an invited participant at the annual meeting of the South Carolina Forestry Association held at Asheville, NC.

R. M. Pace (Grad Stu) and Prof. Wood co-authored a paper, "Observations of Woodcock Wintering in Coastal South Carolina," presented at the 33rd Annual Conference of the Southeastern Association of Fish and Wildlife Agencies held at Hot Springs, AR.

L. E. Nix (Assoc Prof) testified before the Joint State Legislative Subcommittee on Alternative Energy Resources Development concerning the magnitude and availability of wood energy fuel from South Carolina's forests. Prof. Nix was also appointed chairman of the subcommittee's Biomass Conversion Technical Advisory Panel.

Prof. Nodine and A. Marsinko (Asst Prof) co-authored "Impacts of the Soil Bank's Conservation Reserve Program on Forestry in South Carolina," published as Department of Forestry, Forest Research Series: No. 32.

HISTORY

Richard M. Golden (Asst Prof) published a review of F. Ellen Weaver, The Evolution of the Reform of Port-Royal: From the Rule of Citeaux to Jansenism in Theological Studies, XL (June 1979), 367-69.

Jerome V. Reel Jr. (Prof) delivered an invited paper, "Religion in Opera," to the National Opera Association at the 25th Anniversary Convention, Dec. 9, Norfolk, VA.

HOME ECONOMICS

Governor Dick Riley has appointed the Clemson University Cooperative Extension Service the lead agency in the South Carolina White House Conference on Families. Emily S. Wiggins (Asst Prof), family life and child development specialist, has been named state coordinator of the WHCF. Conferences planned for each county in South Carolina in March have as primary goals: (1) to focus on family strengths, (2) to determine the most crucial problems facing families today, and (3) to make actionable recommendations for solving these problems.

HORTICULTURE

M. LeRon Robbins (Prof) has been appointed an advisor to the Joint Legislative Agriculture Study Committee by Senator T. Ed Garrison, chairman of the Senate Agriculture and Natural Resources Committee. Prof. Robbins served as program chairman for Pickle Packers International's Cucumber Improvement Conference, which recently met in Dallas, TX. Prof. Robbins also presented two papers, "Breeding Okra, Cucumbers, Collards and Turnips" and "Effect of Drip Irrigation and Fertility Management on Tomatoes," at the U. S. Vegetable Laboratory Collaborators' Conference held in Charleston Nov. 14-15.

INDUSTRIAL MANAGEMENT

Thomas W. Zimmerer (Prof) addressed the annual training session for the Federal Bureau of Prison Executives in Dallas, TX, Dec. 12. The topic was "Decision Making, Problem Solving and Conflict Management."

Norman K. Womer (Assoc Prof) was elected to the Board of Directors of the Military Operations Research Society Dec. 10.

Earl W. Arp (Assoc Prof) presented a paper, "Occupational Health Program Costs . . . A Simulation Model," at the Southeastern Occupational Health Conference in Memphis, TN.

LANGUAGES

Gaston J. Fernandez (Prof, Spanish) presented a paper, "El concepto del poeta en Martí," at the Congreso de Literatura Cubana held at Florida International University, Miami, FL, Nov. 15-17.

MATHEMATICAL SCIENCES

W. Robert Boland (Prof) attended a regular meeting of the SLATEC Committee at Sandia Laboratories, Livermore, CA, Oct. 16-17 and a called meeting of the same committee at Sandia Laboratories, Albuquerque, NM, Nov. 6. The next regular meeting of SLATEC will be held at the Air Force Weapons Laboratory, Kirkland AFB, NM, Jan. 16-17 with Prof. Boland as host.

Prof. Boland has been named adjunct professor of mathematics and statistics at the University of New Mexico. During October and November he delivered a series of lectures at the Los Alamos Graduate Center, Los Alamos, NM. The program was funded by the Los Alamos Scientific Laboratory and administered by the University of New Mexico.

Prof. Boland has been awarded a \$38,705 NSF grant for a two-year period

beginning January 1 for partial support of his work in nonlinear optimization.

J. V. Brawley (Prof) has published the paper, "A Note on Polynomial Matrix Functions over a Finite Field," in Linear Algebra and its Applications 28: 35-38 (1979). The entire issue of Linear Algebra and its Applications for November was dedicated to Alston S. Householder on the occasion of his 75th birthday.

Prof. Brawley participated in two DOE sponsored workshops on energy-related research at the University of Tennessee, Knoxville. The first, "Matrix Computation and Optimization in Energy Activities," was held Oct. 16, and the second, "Applications of Mathematics to Environmental Problems," Dec. 4.

John K. Luedeman (Assoc Prof) has had a paper, "Closure Operations and Semigroups of Quotients," published in Commentationes, Mathematicae Universitatis Carolinae 20.3 (1979).

MICROBIOLOGY

Ellis L. Kline (Assoc Prof) presented an invited seminar, "A Concept in Cell Regulation," Sept. 28 at the National Institutes of Health. He also presented a seminar, "Metabolite Gene Regulation," to the Department of Microbiology and Immunology at the University of South Carolina Medical School, Columbia, Oct. 10.

F. J. Stutzenberger presented a seminar to faculty and students at Georgia State University Oct. 12. The topic was "Facial Exzema in New Zealand, a Myco-toxicosis Caused by Pithomyces chartarum."

At a joint meeting of the South Carolina Branch and the Southeastern Branch of the American Society of Microbiology in Atlanta, GA, Nov. 9 and 10, the following papers were presented by members of the Microbiology Department:

--"Cyclic AMP Levels in Thermomonospora curvata," by Edward Wood (Grad Stu) and Prof. Stutzenberger.

--"Altered Regulations of Cyclic AMP Dependent Systems in a Pleiotropic Revertant of an Adenylate Cyclase Deletion Strain of E. coli K-12," by V. A. Bankaitis (Grad Stu) and Prof. Kline. This paper won the Southeastern Branch President's Award for the best student paper presented at the meeting.

--"Variations in the Lysis Products of Bacteriophage ϕ 29 and Bacillus subtilis 168," by S. M. Witherspoon (Grad Stu) and L. L. Larcom (Assoc Prof, Microbiol and Physics).

--"Microbial Colonization of Seagrass Roots," by G. W. Smith (Grad Stu) and S. S. Hayasaka (Asst Prof).

--"The Chemotactic Response of Zostera marina Epiphytic Bacterial Root Isolates to Z. marina Root Exudate and Amino Acids," by Donna M. Charette (Grad Stu) and Prof. Hayasaka.

--"Some Interactions of Predominant Bacteria Isolated from a Salt Marsh Sediment," by W. J. Jones (Grad Stud) and M. J. B. Paynter (Prof and Hd).

--"Some Studies of Cellulose Degrading Bacteria in a Salt Marsh Sediment," by B. N. Williamson (Grad Stu) and Prof. Paynter.

Prof. Stutzenberger was a convenor of a symposium on "American Society for Microbiology, Yesterday, Today and Tomorrow."

Prof. M. J. B. Paynter was a convenor of a session in the field of general microbiology.

Prof. Stutzenberger has taken office as president of the South Carolina Branch of the American Society for Microbiology. Prof. S. S. Hayasaka is vice president, and M. J. B. Paynter is secretary-treasurer for the branch.

PHYSICS AND ASTRONOMY

Beverly B. Bookmyer (Prof) and Danny R. Faulkner (Grad Stu) have had a paper,

"Photoelectric Observations and Epochs of Minimum Light, SW Lacertae," accepted for publication in the February issue of Publ. of the Astron. Soc. of the Pacific 92, 1980.

PROFESSIONAL DEVELOPMENT

Thomas B. Maertens (Asst Prof, IM) is chairperson for a two-day seminar, "Supervisory and Foremanship Skills," to be held on campus Jan. 17-18.

Benjamin Hawkins (Asst Prof, Econ) is chairperson for a one-day conference, "Economic Outlook for the Eighties," to be held at Hilton Head Island, SC, Jan. 20-21.

Jean L. Woodruff (Instr, IM) is chairperson for three seminars to be held at the Clemson Holiday Inn: "Women in Management," Jan. 22; "Assertiveness Training," Jan. 23; and "Effective Expression," Jan. 24.

Ms. Woodruff is also chairperson for a two-day workshop, "Letter and Report Writing Workshop," to be held Jan. 29-30 at the Clemson Holiday Inn.

John J. Porter (Prof, Text) is chairperson for a three-day conference, "Textile Wastewater Treatment and Air Pollution Control," to be held Jan. 23-25 at Hilton Head.

Robert W. Rouse (Assoc Prof, Acct and Fin) is chairperson for a two-day seminar, "Profit and Cash Flow Management for Non-Financial Managers," to be held Jan. 31-February 1 at the Ramada Inn in Greenville.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is chairperson for a two-day seminar, "Fundamentals of Management for Warehouse Supervisors," to be held Jan. 31-February 1 at the Ramada Inn in Greenville.

Hassan Behery (Assoc Prof, Text) is chairperson for a three-day workshop, "Technical Workshop on Shuttleless Looms," to be held Feb. 5-7 in

Greenville, Spartanburg, and Charlotte, NC.

Thomas W. Zimmerer (Prof, IM) is chairperson for a two-day program, "Strategic Management," to be held at Hilton Head Feb. 7-8.

Instr. Simpson is chairperson for two courses to be held on campus: "Names and Faces," Feb. 11, and "Positive Discipline," Feb. 13.

J. Michael McDonald (Asst Prof, IM) is chairperson for a one-day seminar, "From Secretary to Administrative Assistant," to be held at the Holdiay Inn in Clemson Feb. 11.

Ms. Woodruff is chairperson for a one-day course, "The Secretary: Beyond the Typewriter," to be held on campus Feb. 12.

Prof. Porter is co-chairperson for a two-day conference, "Energy Conservation in the Textile Industry," to be held Feb. 12-13 at the Peachtree Plaza in Atlanta, GA.

SEED CERTIFICATION

John O. Black Jr. (Hd and Lect in Agron and Soils) participated in the first Mid-Atlantic Seed Processors' Workshop Dec. 11-12 and spoke on "The Role of Seed Certification Agencies in Seed Production and Processing." The workshop, for seed processors from Virginia, North Carolina, and South Carolina, was held at N. C. State University, Raleigh.

TEXTILES

Hassan M. Behery (Assoc Prof) has been elected program chairman for the Annual Overseas Conference of the Textile Institute (England) to be held in Asheville, NC, in October 1980.

Donald W. Lyons (Prof) and Roger Barker (Doctoral Grad) published a paper in the ASME Transactions - Journal of Engineering for Industry. The title of the paper is "Measurement of Fiber Diameter and

Diameter Distribution by Image Analysis."

Prof. Lyons was awarded a \$21,000 contract from the South Carolina Commission of the Blind to identify job opportunities for visually handicapped persons in the textile industry.

MINUTES OF UNIVERSITY FINE ARTS COMMITTEE MEETING, NOVEMBER 29, 1979

The committee convened at 3 p.m. Thursday, Nov. 29, 1979, on the first floor of Strode Tower. The entire membership was present except Mrs. Stanley, Ms. Kiser-Brown, Ms. Wilson and Dean McClure (ex officio). Attending as an invited guest was Mr. Mandicott, program director of the University Union. Chairman John Butler presided.

The financial report for the 1978-79 Concert Series was presented. Budgets for the 1978-79 and 1979-80 Lecture and Foreign Film Series were presented. A discussion of how Lecture and Foreign Film moneys should be allocated for the 1980-81 year ensued; it was decided to continue the practice currently in effect (allocating money for individual lecturers on a first-come-first-served basis with a maximum of \$500 per lecturer) but to seek for a larger total budget figure, thus allowing for a greater number of lecturers.

Possible attractions for the 1980-81 Concert Series were discussed, and the chairman received suggestions for the formulation of the Series. The meeting adjourned at 4:05 p.m.

Respectfully submitted,

John H. Butler
Chairman

MINUTES OF THE COUNCIL OF ACADEMIC DEANS MEETING, NOVEMBER 19, 1979

The Council of Academic Deans met Nov. 19, 1979, in 108 Strode Tower. Dean Hurst called the meeting to order at 9 a.m. with the following persons present:

Dean Chapman (for Dean Anderson), Dean McClure, Dean Landrith, Professor Edwards (for Dean Wilcox), Dean Box, Dean Trevillian, Dean Cox, Dean Labecki, Dean Vogel, Dean Reel, Dean Schwartz, Dean Willis, and Dr. Fleming. Attending briefly were Mr. Otis Nelson, director of international services; and Mr. Ray Thompson, director of personnel.

Mr. Nelson presented two handouts: (1) a statement of policy articulating Clemson's commitment to international education and its philosophy relating to the admission of foreign students; and (2) our rationale for admitting foreign students and our current admissions procedures which have been followed for the past three years for undergraduate and graduate students. Mr. Nelson further explained these two papers and responded to several questions from the deans.

Mr. Thompson discussed the three proposed new leave forms that had been previously distributed to the deans: (1) Request for Leave; (2) Request for Extended Leave of Absence; and (3) Employee Leave Record. Mr. Thompson stated that much thought and planning had gone into the revision of these forms, and that he wants the benefit of the deans' opinions. After they are put into final form, the forms will be submitted to State Personnel for final approval. Dean Hurst asked for the deans' comments by Dec. 1.

The agenda items relative to additions, deletions, and changes in courses and/or curricula were approved by the deans. These had previously been approved by the Undergraduate Council at its Oct. 5, Oct. 19, and Nov. 2 meetings and by the Graduate Council at its Oct. 8 and Nov. 6 meetings. In addition to the agenda items, the deans also approved several engineering construction courses that were listed in an addendum dated Nov. 19 and handed out at the meeting. These courses had been previously approved by the Undergraduate Council Dec. 1, 1978, and the Graduate Council Dec. 19, 1978.

Dean Hurst stated that someone has been placing commercial notices on bulletin boards around campus advertising research

papers for sale. He said the deans are responsible for what is placed on the bulletin boards in their buildings and that they should monitor them as closely as possible. He also said that students need to be warned that use of these research papers constitutes plagiarism.

Dean Hurst advised that we are moving ahead with the plans for the institutional self study. Dr. J. Edwin Clark, associate professor of civil engineering, has been appointed as director, and Professor Frank L. Day, associate professor of English, has been appointed editor and secretary. Dean Hurst stated that the remainder of the Steering Committee will be composed of representatives from the areas of Student Affairs, Business Office, Development, and two members from the faculty. He will announce the committee membership as soon as it has been completed.

Dean Landrith announced that his college has developed a program for the improvement of graduate assistants, and he offered to extend these services to any other college that is interested. Dean Hurst remarked that some complaints have been directed to President Atchley from students regarding the quality of teaching of graduate assistants, and Dean Hurst feels that the deans should have some sort of plan for improving their teaching effectiveness. He concluded by saying that the deans may develop a plan for their own college, or they may choose to use the services being offered by the College of Education.

There was a general discussion relative to Parents' Day which was observed Saturday, Nov. 3. It was the general consensus of the deans that the event was poorly attended. They discussed ways in which it might be improved in future years.

Dr. Reel reported that the Undergraduate Council unanimously passed a resolution Nov. 2, 1979, removing paragraphs 4 through 6 of page 52 of the Clemson University Announcements. This policy provides for re-examination for deficient grade-point-ratio when additional grade points are needed for graduation. There was considerable discussion regarding this policy and finally it was moved that the policy be abolished. The motion was seconded and passed by a vote of 5-4. The matter will be moved forward to the Educational Council.

Dean Hurst appointed Dean Trevillian to chair a committee composed of Deans Vogel, Wilcox, and Anderson to study the matter of professorships. Some sentiment has been expressed that those holding endowed professorships or chairs should be reviewed periodically to justify their continuance in the position.

Dean Schwartz reported on the recommendations of the subcommittee of deans consisting of Deans Landrith, Schwartz, Trevillian, and Wilcox. This committee had been appointed by Dean Hurst to make recommendations for the allocation of Alumni graduate funds. The motion was made that the committee's recommendations be accepted; the motion was seconded and approved unanimously.

Dean Hurst announced that the next deans' meeting will be on Monday, Dec. 17, in the Nursing Building.

The meeting was adjourned at 11:25 a.m.

Respectfully submitted,

Annette H. Kesler

MINUTES OF THE FACULTY SENATE

November 20, 1979

Senate Chamber

1. Call to Order

The meeting was called to order by President Fleming at 3:32 p.m.

2. Approval of Minutes

The Minutes for October 16, 1979 were approved as written.

3. Introduction of Special Guests

President Fleming introduced the new editor of The Tiger, Mr. Charles Bolchoz; Mrs. Beulah Cheney, Editor of University Publications, Professor Wayne Ogle who was substituting for Professor Mazur, and Professor Steirer, former President of the Faculty Senate. President Fleming was asked who would write the new short version of the Faculty Senate Minutes - Mrs. Cheney's office or the Senate Secretary. Dr. Fleming indicated that the effort would be coordinated.

4. Special Presentation: Ad Hoc Committee to Review the University Council Concept and Proposal - Senator Coulter.

Senator Coulter asked for unanimous consent to suspend the rules so that the Senate could hear the committee's report and discuss it thoroughly before taking action under Old Business. He also asked the Senate to go into Executive Session in order to have a free discussion of certain controversial aspects of the proposal, leading to a clear consensus. (The Executive session began at 3:43 p.m. and ended at 4:28 p.m.)

5. Committee Reports

(A) Admissions and Scholarship Committee: Senator Grubb

The Admissions and Scholarship Committee met Tuesday, November 6.

The Committee discussed the recent postponement of the proposed shortening of the drop-period. We were disappointed and displeased to learn of this latest, last-minute postponement of the question. This is an issue on which the Faculty Senate has expressed itself on numerous occasions in the past several years; it is a change which the Undergraduate Council also recently overwhelmingly supported. Moreover, we feel that the Faculty Senate has more than adequately justified the proposed change on solid academic grounds--or would have had the proposal been forwarded, as expected, to the Council of Deans. We therefore direct the President of the Faculty Senate to express to the President of the University and the Vice President for Academic Affairs our displeasure both with the decision to postpone the matter and the fact that it was done without consulting the faculty. We would also say that we do not understand the reason for this postponement, feeling that the matter has been frequently and publicly aired over the past several years and that this matter, a question of ongoing academic standards, need not have been delayed by proposed changes in the University's administrative structure. We also wish to indicate that we intend to pursue a more academically responsible system.

The Committee also agreed to discuss the matter of grade inflation this spring. In the meantime Bob Mazur (Hort.) and Herman Senter (Sciences) are studying the present Grade Distribution Report with a view to making recommendations for its refinement and improvement.

The remainder of the meeting was devoted to a discussion of the admissions policy and proposed changes in it. At this time we have nothing to report, but we will have more definite proposals later, hopefully by January.

The next meeting of the committee will be Tuesday, December 4, at 3:30 p.m. in 411 of Strode Tower. The main item on the agenda will be the admissions policy.

Respectfully submitted,

(Signed)

Alan Grubb, Chairman

(B) Policy Committee: Senator West

POLICY COMMITTEE REPORT - November 20

The Faculty Senate Policy Committee met on October 30, 1979. The Committee reviewed the October 16 Faculty Senate Policy Committee Report and the minutes of the October Faculty Senate. In reviewing the Committee Report the following actions were taken:

1. To delete recommendation 1a thereby retaining the position titles "Adjunct Professor" and "Adjunct Associate Professor."
2. To present to the Faculty Senate a resolution on Adjunct Faculty that addresses the use of other titles to designate "Adjunct Faculty."
3. To develop a resolution on Instructor Tenure that would address recommendations 2a and 2b, and present the resolution to the Faculty Senate at the November meeting.

The Policy Committee received information concerning H-2680, a bill to allow state universities exemptions from the current state laws governing employee evaluation and tenure. The committee reviewed communications from President Atchley's office to other state universities, and to the presiding officer of the South Carolina Senate committee. The committee recommends that the Clemson University Faculty Senate go on record as supporting H-2680, with amendments that would allow ALL faculty of state universities to be exempt from the current law governing state employee tenure.

The committee must point out that in the process of moving from the current law and relevant Attorney General's opinions, to any revision of that law, that there may be faculty that could question if they are not already tenured. How the University is to address that problem is not clear at this time.

Respectfully,

(Signed)

W. E. West, Chairman

Senator West reported that the question of faculty tenure under the recent acts of the legislature with regard to state employees is still unclear.

(C) Research Committee: No Report

(D) Welfare Committee: No Report

(E) Other Ad Hoc Committees:

Ad Hoc Committee on University Research and Research Funding:

The following people have been appointed to serve on this committee:

R. Abramovitch	(Department Head)	Sciences
J. Bennett		Engineering
S. Buckner		Education
D. Ham	(Faculty Senate)	F&RR
S. Hays	(Department Head)	Agriculture
P. Kline	(Faculty Senate)	Nursing
A. McCracken		Office of Grants Mgn.
K. McDowell	Chairman	Sciences
G. Means		Architecture
W. Owens		Liberal Arts
P. Woodside		IM & TS

The committee met on Monday, October 29, and prepared a preliminary charge to the committee to be submitted to Dr. Atchley prior to a meeting with him on October 30.

The committee met with President Atchley, Dean Hurst, and Dr. Horace Fleming on October 30 to discuss the charge to the committee. The President expressed support for the committee.

The committee has begun to gather relevant data. In a memorandum dated November 2 the Engineering faculty were asked to respond to Dr. Bennett concerning the preliminary charge. In a memorandum dated November 9 the Sciences faculty were asked to respond to Dr. McDowell. Considerable input from the faculty has been achieved from these requests. On November 13 and 14 the committee chairman and Mr. McCracken attended the grantsmanship conference sponsored by the College of Agriculture. Here again considerable input from the faculty has been achieved.

The committee held a second meeting on November 16. Plans were laid to begin a series of interviews with key administrative personnel.

Respectfully submitted,

(Signed)

Keith McDowell, Chairman

Charge to Committee

1. To review the University's organization, procedures and philosophy for the carrying out of academic research.
2. To locate and define problem areas in the university research effort; in particular, such areas as the administration and securing of proposals, grants and contracts, our image at the funding agencies, matching funds, adequacies of support facilities and personnel, maintenance of facilities, the number and quality of graduate students, distribution of faculty effort, evaluation of faculty research efforts, accountability for research effort and money spent, and administrative managerial styles and practices.
3. To develop a comprehensive plan which permits faculty to maximize their research efforts.

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Senator McDowell added that there was some confusion about whether the final report from the new committee would go through the Faculty Senate or not. He assured the Senate that they would receive the report. After meeting with President Atchley, Senator McDowell feels that the committee will have real significance. He has met with faculty groups in Agriculture and Engineering and hopes to meet soon with relevant administration officials in order to prepare a better report.

Senator Worm asked if the committee was going to address the role of the Research Council. Senator McDowell answered that they could. They would also address the question of a possible Vice President for Research, which is clouded in vagueness at the present time.

Senator Thompson made a brief report on the faculty-administration trip to Hobcaw Plantation. The highlight seemed to be an arranged meeting between personnel at the Station and the administrators. Most of the issues discussed were unique to the Plantation.

Senator Kimbell reported for the Ad Hoc Committee on Advisement. Their report has been held up by the need to tabulate data from a recent questionnaire. Since the results are now in, a report should be issued by the committee to the Senate by December.

(F) University Councils and Committees:

Senator West reported for the Search Committee on the Selection of a Vice President and Provost. They have had several meetings on nominations; the job description is now available (see attachment A); they have received several nominations and applications already and solicit more; and they have scheduled the deadline for applications to be January 7, 1980 and hope for a recommendation by March.

Senator Rollin urged the Committee to keep the Senate informed as to criteria for selection, job descriptions and method of selection.

Senator West agreed to do so, but noted that agreements have only recently been reached, so there has been little to report on thus far. Senator Worm noted that, for the present, it appeared that the job description is essentially that of the job now done by Dean Hurst plus the added duty of "Acting President" or Provost.

Senator Rollin noted that the job description seemed to be shrouded in the same intentional "creative ambiguity" as that of the proposed University Council. Senator Worm said that as far as he was concerned, the job was simply that of an ordinary Vice President, not a "Senior Vice President." President Fleming cautioned that any senator could talk to the committee, but, at present, it was not a Senate matter. The discussion ended.

Senator Baron reported that the Undergraduate Council had accepted the motion on "Reexamination for Deficient G.P.R." from the Student Senate - (See Attachment B). It was noted that the Council of Deans have also agreed to this by a 5/4 vote.

Senator Howard announced that the Fine Arts Committee will meet on November 29 to discuss future arts programs. Proposed events were solicited from interested parties.

6. President's Report:

President's Report - November 20, 1979

1. On Thursday, November 15, the Cabinet voted to adopt a progressive discipline policy, which will apply to all classified and unclassified employees of the University, excluding faculty. I voted alone against the policy on grounds that its long range consequences for faculty are insufficiently understood.
2. The Vending Machine Committee reports \$78,794 available as of June 30, 1979. However, \$50,000 of this amount already has been approved for student organizations during 1979-80. Estimated revenue in 1979-80 is in the range of \$25-27,000.
3. President Atchley has determined that the surplus funds accumulated through the group life insurance program offered on campus by Prudential Life Insurance Company will be held on account until next year, to provide a cushion against any increases in premiums. A resolution on this matter will be forthcoming during this meeting.
4. The Cabinet has approved establishment of a University Committee on Alcohol and Drug Abuse, to consist of students, staff and faculty. The purposes of the committee will be to "gather information about drinking practices and attitudes on the campus and about existing programs and needs in this area, to disseminate information about alcohol, alcohol use and alcohol misuse and to encourage the University community to focus on the issue of alcohol and to stimulate new education and communication efforts."
5. President Atchley has directed each college to formulate their mission statement and forward it to him for review and consolidation

into a University mission statement. These materials should be forwarded to him within the week.

6. The Advisory Committee met Thursday, November 15.
 - a. The Committee heard a presentation by faculty of the Media Center relative to their termination and the discontinuance, as of September 1, 1980, of the entire Media Center staff and facilities.
 - b. The Committee voted to recommend that the meeting time December 11 be altered in order to accommodate final examinations ordinarily in progress during the 1-4 p.m. hours. The Committee recommends that the meeting commence at 4:15 p.m. rather than the usual 3:30 p.m. time.
 - c. Because the inauguration ceremonies for President Atchley have been scheduled for the week of April 15 (April 15 being our normal meeting date) and because the festivities will commence early in the week, the Committee voted to recommend that we meet on April 8 rather than April 15, at the same time (3:30 p.m.) in the Senate Chambers.
7. Professor Charles Coolidge, Chairman of the University of South Carolina Faculty Senate, has invited Dean Hurst and me to meet with him and the USC Provost in January to discuss mutual interests and concerns of our respective faculties. I will advise you of our specific plans as they develop further.
8. The proposals of the Student Senate and Faculty Senate on "Reexamination for Deficient Grade-Point Ratio" were endorsed by the Council of Deans at their meeting on Monday, November 19.
9. Professor J. E. Clark has been appointed to chair the University Self-Study. Professor F. L. Day will serve as editor and secretary to the Self-Study Committee.
10. I will attend the Annual Meeting of the Southern Association of Colleges and Schools in Atlanta, December 10-12. Vice President Thompson, therefore, will preside at our December 11 meeting of the Senate.

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7. Old Business:

Dr. Coulter moved the acceptance of the report of the Ad Hoc Committee on the new University Governance. The motion was seconded. Dr. Coulter then proposed an additional specific recommendation under title III to wit: "The President of the Faculty Senate and the President of the Student Body should continue to be permanent members of the President's Cabinet whatever new form of governance should emerge." President Fleming expressed support for the amendment. The question was called and the amendment was passed.

Senator Rollin asked about the role of the proposed Council in policy making. The answer was that the description, as yet, is too vague to tell.

Senator Turnipseed moved to delete title I, "Understandings and Impressions." Senator Coulter argued that it was necessary in order to explain the thinking behind the recommendations in Titles II and III. The question was called and the motion was defeated.

Senator Kelly proposed that the first recommendation in Title III be amended by deleting all after "Senate from the Senate" and adding, "from faculty nominated by the Senate." She explained that this would enable good people not in the Senate to be selected by the Senate from areas under-represented in the Senate. Senators Snipes and Coulter endorsed the amendment. The question was called and the motion passed.

This led to a confusing attempt to bring Title II in conformity with the preceeding amendment. The upshot was an amendment by Senator Worm to Title II changing the description of faculty members of the Council to read "Faculty representatives elected by the Faculty Senate." The question was called and the motion passed.

The motion to approve the committee report as amended (See Attachment C) was called and the motion to adopt the committee report passed.

Senator Baron moved to reconsider Resolution 79-9-2, previously tabled. The motion was defeated.

8. New Business:

Senator Baron introduced Resolution 79-11-1 and moved its adoption:

Faculty Senate Resolution 79-11-1

SUBJECT: Surplus group life insurance funds

Whereas, the Clemson University life insurance group has amassed a surplus of funds;

Whereas, this surplus was created by the policyholders of the insurance program;

Whereas, there has been no contribution of funds to the insurance program by the University;

Whereas, representatives of the group life insurance committee advised faculty and staff that the disposition of surplus funds would be decided upon by the policyholders;

Whereas, the decision as to the handling of said funds reflects not at all on the academic nor administrative responsibilities of the University; and

Whereas, the administration of the University has arbitrarily made the decision to have said surplus funds left on deposit with the Prudential Insurance Company;

Whereas, the fact that the administration made such a decision reflects a lack of respect by the administration as to the ability of the faculty and staff of the University to manage their own affairs; therefore be it

Resolved, that the University administration immediately rescind its order to the University group life insurance committee to leave surplus funds on deposit with the Prudential Insurance Company; and be it further

Resolved, that the University administration immediately order the insurance committee to call a meeting of the policyholders for the explicit purpose of deciding how the surplus funds shall be used.

Senator Baron noted that this decision should rightfully be made by the policyholders. Senator Coulter noted that the policyholders were promised the rights to dividends when they purchased the insurance. Senator Worm moved to delete the last "Whereas clause" of the resolution. Senator Baron defended it on the grounds that President Atchley was fully aware of faculty sentiment when he made his decision, and that he should be reminded that his behavior continues past practices. Senator Turnipseed asked President Fleming for his description of the Cabinet action at issue. President Fleming's response was that the Cabinet probably misunderstood their responsibilities here and that the issue was one of rate stabilization versus dividends. The question on the amendment to strike was called and the amendment was defeated.

Senator Kelly moved to strike the word "continued" in the same clause. The question was called and the motion passed.

The resolution as amended, was then called, and it passed.

Senator Baron then introduced and moved Resolution 79-11-2:

Resolution on Financial Support for Faculty Senate Officers

Whereas, the demands of the office of Faculty Senate President impinge on the time which that individual would usually spend with job-related responsibilities;

Whereas, the time demands of the office of Faculty Senate President are continuous throughout the 12 months of the year;

Whereas, the business of the Faculty Senate often requires secretarial assistance beyond that normally available in the various administrative units of the University;

Whereas, office supplies, copying costs, telephone and travel expenses of the Faculty Senate and its officers are currently provided by the Office of the Vice President for Academic Affairs;

Whereas, the current arrangements for meeting the needs of the Faculty Senate and its officers for secretarial assistance and supplies are generously, though charitably, provided and represent an imposition on the staff time and budget of the Office of Vice President for Academic Affairs, be it therefore

Resolved that designated funds be appropriated in the budget of the Office of Vice President for Academic Affairs for support of

1. Fifty percent of the salary and fringe benefits of the President of the Faculty Senate for the 12 month calendar year.
2. The salary and fringe benefits of a part-time secretary to work exclusively with Faculty Senate business or 50% of the salary and fringe benefits of a full-time secretary, half of whose time would be available for Faculty Senate business be provided. In addition, a separate budget item should be included in the budget of the Office of Vice President for Academic Affairs for use in providing materials, supplies, copying, telephone and travel funds for Faculty Senate officers or their representatives. Be it further

Resolved that a study of the time demands of Faculty Senate Business placed on the Vice President and Secretary be conducted to determine if a reduction in the teaching loads and/or work responsibilities of these individuals is required. In addition, determination of the need for office space for the Faculty Senate officers and/or staff should be made.

- - - -

Senator Worm asked for an explanation. Senator Baron noted the unpaid summer activities of the President and the need for more help in a growing series of "tasks" being laid on Faculty Senate Presidents. Senator Coulter noted the need for more help for Senate Secretaries. Senator Edie cautioned against creating more bureaucracy. The question was called and the resolution passed.

Senator Bursey introduced and moved the adoption of FS 79-11-3:

Resolution on the
Towing of Student Automobiles for Athletic Event Parking

Whereas, attending to the needs of the students living on-campus at Clemson University must include the provision of adequate space for parking personal motor vehicles;

Whereas, the towing of student motor vehicles from parking spaces around Frank Howard Field and Littlejohn Coliseum to provide parking space for non-students attending football and basketball games imposes unwarranted inconvenience, stress and expense on the student, be it therefore

Resolved that the practice of towing student motor vehicles from spaces utilized by non-students attending athletic events cease immediately and alternative parking arrangements for the student living on-campus or the visitor to an athletic event be found.

- - - -

Senator Bursey noted that, whereas the resolution does not presume to say what should be done, it does call attention to a deplorable situation. Senator Howard noted that students who are forced to move their cars have no legal place to put them and often get tickets for parking where they do. Senator Komo asked if the problem was with commuting or on-campus cars. Senator Bursey said the issue was on-campus cars. Senator Kimbell noted that on-campus parking was an incentive for on-campus living, and it should not be arbitrarily taken away.

Senator Worm suggested that this was essentially a student matter and wondered if the Student Senate shouldn't handle it. Senator Bursey noted the need to show solidarity with the students on this issue. The resolution was called and passed.

President Fleming moved the passage of item 6-B and 6-C in the President's report. The question was called and the items were passed.

Senator West introduced Resolution FS-79-11-4 and moved its adoption:

Resolution:

Whereas, the faculty of Clemson University consists of the President of the University; the deans and directors of the colleges and schools; professional librarians; the teaching, research, and extension faculty with the rank of professor, associate professor, assistant professor, or instructor, and

Whereas, there does exist other faculty titles such as Visiting_____, Lecturer, Research Associate, and

Whereas, the variety of titles generates misuse of the various titles, therefore be it

Resolved that the Faculty Senate requests that the University Faculty Manual be rewritten to define faculty positions that are temporary or short term as Lecturer, Research Associate or Visiting with appropriate faculty title.

- - - -

Senator West noted that if this had been in the Faculty Manual, the Media Center problem now extant would not have happened - a proposition which produced a mixed response. Noting that, in any case, this was the way to get the Faculty Manual rewritten, the question was called and the resolution passed unanimously.

Senator West then introduced and moved the adoption of FS-79-11-5:

Resolution:

Whereas, the Clemson University Faculty Manual does describe the Faculty appointed as Adjunct Faculty, and numerous persons have been appointed Adjunct Faculty, and

Whereas, there does exist confusion among the faculty as to the method of nominating for appointment as Adjunct Faculty, the requirements for appointment to different Adjunct Faculty titles, and the current listing of Adjunct Faculty,

Therefore Be It Resolved that the University develop guidelines for nominations, appointments, and communication procedures concerning Adjunct Faculty appointments; and be it

Further Resolved that the Faculty Senate advise Dean Hurst that the use of the title "Lecturer" not be used as an "Adjunct Faculty" title.

- - - -

Senator West explained that this would eliminate the confusing use of the term "lecturer." Senator Worm wondered who would define "adjunct faculty." President Fleming noted that the purpose of the resolution was to point out the problem, and the "definers" would be addressed later. The question was called and the resolution passed.

Senator West introduced and moved the adoption of FS-79-11-6:

Whereas the present tenure policy relegates certain individuals to second-class faculty citizenship, for they are "permanent" but non-tenure-track professionals, but they are not "special appointments", and

Whereas the present policy is not in the best interests of individual instructors as it may (and has) served to impede such individuals' professional careers, and

Whereas the present policy is not in the best interests of the University because it allows decision-making to be indefinitely postponed and can encourage the retention of less professionally qualified and successful faculty,

Therefore Be It Resolved that the Faculty Manual be amended as follows:

(Page 34, #2) Faculty with the rank of instructor or higher and professional librarians are eligible for tenure.

(Page 35, Section 3) Delete the parenthetical phrase "(including not more than two years spent at the rank of Instructor)" and the phrase (line 5) "and above the rank of Instructor"; and amend the phrase (line 7) from "Assistant Professor or above to read "Instructor or above."

(Page 47) After "Bases for Appointments and Promotions," insert: The faculty ranks of Instructor, Assistant Professor, Associate Professor, Professor and Professional Librarian are regular, full-time appointments, and only appointees to these ranks become eligible for tenure and promotion.

(Page 48) Before "Personnel Evaluation Program" insert: Bases for Special Appointments. Special appointments are made under the following classifications: military personnel, research associates, consultants, lecturers, adjunct professors, visiting professors, and retired faculty reappointed under special conditions. These appointments carry with them the implications of short term associations with the University and of functions more limited than those of regular faculty.

- - - -

A general and spirited debate ensued, during which the following observations were made:

- * Because they can't be promoted to Assistant Professor, some instructors are forever denied tenure.
- * Under the resolution, unless a title is "qualified" by such labels as "adjunct", "visiting" or "temporary," any position would now be eligible for tenure consideration.
- * The resolution would bring Clemson in line with other major institutions in this regard.
- * Temporary people who are presently employed could be harmed by this because it would force their firing rather than admit them to a "tenure-track."
- * The issue boils down to deciding whether one commits himself to a job or a career.
- * Rank is important.

After that last revelation, the question was called and the resolution was defeated.

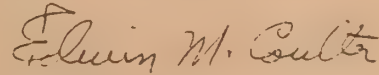
9. Announcements:

President Fleming announced that printed announcements concerning (1) the plan for the allocation of Peach Bowl tickets, and (2) the University policy on International Education were available for distribution to the Senate.

10. Adjournment:

The Senate adjourned at 6:05 p.m.

Respectfully Submitted,



Edwin M. Coulter
Secretary

Members Absent:

Gray
Mazur (substitute present)
Burt
Senter

EMC/lm

Enclosures

Job Description
for
Provost and Vice President for Academic Affairs
Clemson University

The Provost and Vice President for Academic Affairs is the Vice President and chief academic officer of the University and is responsible to the President for all academic programs and personnel. The Provost and Vice President of Academic Affairs:

1. Serves as the Vice President and acts for the President in the absence of the President.
2. Acts as the dean of the faculty and presides over all general faculty meetings.
3. Acts as the administrative representative in dealing with matters affecting and associated with the Faculty Senate and its operations.
4. Serves as the line administrative supervisor for the Academic Deans and, therefore, is responsible for the administration of the entire teaching, research, extension and regulatory programs at the University.
5. Establishes and approves in consultation with academic deans all budgets for the academic operations of the university, approves all faculty positions serving the academic area, promotions, tenure and sabbatical leaves.
6. Represents the University in presenting new programs to the Commission on Higher Education, the State Budget and Control Board and other entities as so designated by the President.
7. Participates in the formulation of University policies and long range planning and carries out those policies applying to the academic area.
8. Chairs the Council of Academic Deans.
9. Serves as a member of the President's Cabinet
10. Recommends to the Educational Council actions approved by the Undergraduate Council, the Graduate Council, and the Council of Academic Deans relative to courses and programs.
11. Coordinates the revision of the official Manual for Faculty Members (1972-1976).

Memorandum To:
Search Committee for Provost
and Vice President for Academic Affairs
Page 2

12. Serves as ex-officio Secretary of the Educational Policy Committee of the Board of Trustees.
13. Allocates Alumni funds that have been designated for the academic area.
14. Designates colleges to receive Distinguished Alumni Professorships and Visiting Alumni Professorships.
15. Serves as Clemson's representative on the Advisory Committee on Academic Programs for the S. C. Commission on Higher Education.

This job description was developed by the Search Committee for Provost and Vice President for Academic Affairs, Clemson University and approved by Dr. Bill L. Atchley, President of Clemson University on November 9, 1979.



CLEMSON
UNIVERSITY

STUDENT GOVERNMENT

RESOLUTION NO. R-79-80-27
1979-1980 Clemson University Student Senate

Date Submitted 10/22/79
Date Approved 10/29/79

"REEXAMINATION FOR DEFICIENT G.P.R."

WHEREAS, a student has had time throughout previous semesters to bring up his/her GPR,

BE IT RESOLVED by the Clemson University Student Senate in regular session assembled the following:

That the Clemson University Student Senate strongly support the Faculty Senate's resolution abolishing the practice of reexamination for deficient grade point ratio (as described in paragraphs 4 through 6 of page 52 of Clemson University Announcements 1979/1980)

Jeff Anderson
Student Senate President

Copies to:

Dr. Bill L. Atchley
Dean Walter T. Cox
Dean George E. Coakley
Dean Susan G. Delony

The Tiger
WSBF
Dr. Horace Fleming
Dean Victor Hurst
Dr. Jerome V. Reel



CLEMSON
UNIVERSITY

FACULTY SENATE

November 21, 1979

Dr. Bill L. Atchley, President
Clemson University
201 Sikes Hall
Campus

Dear President Atchley:

The Faculty Senate is grateful to you for sharing your time with Senators Coulter, Quisenberry and Snipes on the occasion of your discussion with them of the proposed University Council system. After due consideration of their report, the Faculty Senate is pleased to respond to your request of October 12, 1979, for input by making the suggestions contained in the accompanying report.

Sincerely,

Horace W. Fleming, Jr.
President, Faculty Senate

HWFJr/lm

I. Understanding and Impressions

In addition to the information provided in the Presidential memo of October 12, 1979, the Faculty Senate understands:

- A. that after the creation of the proposed University Council and its supporting commissions, the normal day-to-day operations of the university among faculty, department heads and deans will remain relatively unchanged;
- B. that the University Council will be an advisory council for purposes of campus- community-wide input, that it will not constitute a continuing policy-recommending board, and that it will meet approximately once a month or on the call of the President;
- C. that the major locus of new kinds of integrative activity will be in the second-tier Commissions of the Council system, that they will be few in number (4 or 5), and that they will be made up of different mixtures of representatives from relevant interest areas served by them.
- D. that the precise nature, role and organizational structure of the Commissions will be determined after the Council has been created; and
- E. that some of the administrators on the Council will be ex-officio members who will provide administrative expertise, but who will not have the power to recommend policies.

II. Recommendations

In accordance with the impressions and understandings cited, the Faculty Senate makes the following suggestions as to the make-up of the University Council:

President
Vice President for Academic Affairs (Provost)
Vice President for Student Affairs
Vice President for Business and Finance
*Vice President for Development
Dean of Graduate Studies and University Research
*Dean of Admissions and Registration
*Director, University Relations
A Department Head (see Item III)
President of the Faculty Senate
President of the Student Body
President of the Senate
**Dean of A
**Dean of B
**Dean of C
***Faculty representative elected by the Faculty Senate
***Faculty representative elected by the Faculty Senate
***Faculty representative elected by the Faculty Senate
***Faculty representative elected by the Faculty Senate
***Faculty representative elected by the Faculty Senate
***Faculty representative elected by the Faculty Senate

*Ex-officio--non-voting member.

**Rotating terms to be decided by the President.

***One-year terms, renewable.

III. Specific Recommendations

In accordance with the structure cited, the Faculty Senate notes the following specific recommendations:

1. All faculty members of the Council should be elected by the Senate from faculty nominated by The Faculty Senate.
2. All faculty members should serve one-year terms, but these terms should be renewable at the convenience of the member and of the Senate.
3. A department head should be included on the Council. He could be appointed by the President for a term defined by the President.
4. The administrators designated by one asterisk (*) should not be in a position to vote on any policy recommendations from the Council.
5. The President of The Faculty Senate and The President of the Student Body should continue to be permanent members of The President's Cabinet, whatever new form of governance should emerge.

Calendar of Campus Events

- 1 -- Down Hill Ski Trip to Sapphire Valley. Sponsored by University Union, details and sign up at Union Information Desk.
- 3 -- Free Flick: "Start the Revolution Without Me." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 4 -- Basketball: Francis Marion College (Women), Littlejohn Coliseum, 7 p.m.
- 4-10 -- Videotape: "Beatles - Part I." Sponsored by University Union, loggia, shown several times daily.
- 5 -- Winter Backpacking Seminar. Sponsored by University Union, details and sign up at Union Information Desk.
- 6 -- French Play. Sponsored by Department of Languages, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 6 -- Basketball: Wake Forest (Men), Littlejohn Coliseum, 8 p.m.
- 6-7 -- Coffeehouse: Live Entertainment. Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 7 -- Performing Artist Series: "Phyllis Lamhut Dance Duo." Sponsored by University Union, Daniel Hall Auditorium, 8 p.m. Open to the public, \$1.50 admission charge. Details at Union Information Desk.
- 8-21 -- Art Exhibition: "The Penland School of Crafts Faculty Exhibition." Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays and 2-5 p.m. Sundays. Open to the public, no admission charge.
- 9 -- Basketball: Maryland (Men), Littlejohn Coliseum, 3 p.m.
- 9-10 -- Winter Backpacking Trip. Sponsored by University Union, details and sign up at Union Information Desk.
- 10 -- Free Flick: "Rio Lobo." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 11-17 -- Videotape: "Beatles - Part II." Sponsored by University Union, loggia, shown several times daily.
- 12 -- Basketball: Carson Newman College (Women), Littlejohn Coliseum, 7:30 p.m.
- 12 -- Shortcourse: "The Secretary Beyond the Typewriter." Sponsored by Professional Development Office, call 656-2200 for more information.
- 12 -- Concert: Joanne Cohen, violinist, and Ruby Morgan, pianist. Sponsored by Music Department Chamber Music Series, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 13 -- Brown Bag Special. Sponsored by University Union, Edgar's, noon - 1 p.m. Bar will be open.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 13 -- Shortcourse: "Positive Discipline." Sponsored by Professional Development Office, call 656-2200 for more information.
- 13 -- Valentine's Day Cardmaking. Sponsored by University Union, loggia.
- 13-14 -- Coffeehouse: Live Entertainment. Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 14-15 -- Shortcourse: "Effective Management for Middle Managers." Sponsored by Professional Development Office, call 656-2200 for more information.

WEPR Highlights

South Carolina Educational Radio Network programs produced by Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg; WSCI 89.3 FM, Charleston; and WMPR 88.1 FM, Sumter.

Weekdays -- MORNING EDITION, 6 a.m., a news and features magazine produced by National Public Radio with contributions from Clemson University, the University of South Carolina, and WSCI, Charleston.

-- P.M., 8 p.m., music and features magazine produced by Jim Barnhill.

Mondays -- THE OLD AND NEW WORLDS OF WORDS, 4:30 p.m., John Idol and Jim Skinner.
(4, 11) (4) "Mountains, Rivers, Lakes, and Capes," (11) "Towns, Cities, and Settlements."

-- MAJORS AND MINORS ENCORES, 11 p.m., Ray Barfield.

Tuesdays -- A LITTLE NIGHT MUSIC, 10:30 p.m., Bill French. (5) "Parent and Child,"
(5, 12) (12) "The Dawn's Early Light."

Thursdays -- PLOTS AND PROLOGUES (on P.M.), 8 p.m.
(7, 14)

Fridays -- MAJORS AND MINORS, 3 p.m., Ray Barfield.
(1, 8)

-- PLOTS AND PROLOGUES (repeat), 4:30 p.m.

Saturdays -- JAZZSPOT, 9:30 p.m., George Donahue. (2) "The Role of the Tenor
(2, 9) Saxophone," (9) "Charlie Parker."

-- CLEMSON SIDETRACK, 11 p.m., Henry Cook.

Sundays -- PERFORMANCE, 9 p.m., Jim Barnhill.
(3, 10)



PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 11

February 1, 1980



FEB 1 1980



WIZARD IN THE CLASSROOM -- The nation's top entomology teacher, Clemson professor Tom Skelton, is at work, in class.

ENTOMOLOGY PROFESSOR WINS NATIONAL TEACHING CROWN

The Entomological Society of America has given one of its highest national honors, the Distinguished Achievement Award in Teaching, to Clemson University professor Thomas E. Skelton.

The award was made at the Society's annual meeting in Denver, which was attended by more than 2,000 scientists. Skelton was selected by the Southeastern branch of the Society to compete for the national award.

A past winner of the Clemson Alumni Master Teacher Award, Skelton was called "a mainstay in our teaching program" by colleague Merle Shepard, who nominated him.

Skelton is adviser to all undergraduate entomology majors at Clemson. He developed a popular course called "Insects," sometimes having as many as 200 students sign up.

Nationally, he has served on the Society's education committee, which published a teaching guide on entomology. He is the author of an article in The American Biology Teacher magazine on "Insects and Human Welfare."

A native of Six Mile and a graduate of Clemson, Skelton was in private business in the area before going back to school at the University of Georgia in 1966, with a wife and three children, to get his Ph.D. degree. In 1969 he returned to Clemson and teaching.

Of his work he says, "The most rewarding thing about being a teacher is seeing a student, confused, come to you for advice. He may not know where he's going or what he's going to do, but you sit down with him and advise him and together you come up with a plan.

"Then to see him follow through on that plan and become successful in life, that's just great," Skelton says. "These awards are nice. But to see your students succeed in life, that's the teacher's greatest reward."

SPEAKERS SELECTED FOR INAUGURAL SYMPOSIUM

Plans for the April 18 inauguration and related activities for President Bill L. Atchley continue to take shape, including the selection of four symposium speakers and the scheduling of an inaugural concert and dance.

Dr. J. V. Reel, chairman of the inauguration committee, said the remarks of symposium speakers will center around a theme of "Energy: Future Developments," and will set the stage for the main speaker at the inaugural ceremony.

The three days of inaugural activities will begin on Wednesday, April 16, with

the first two speakers--Dr. John J. McKetta of the University of Texas, engineering educator, energy advisor, environmentalist; and Dr. Margaret N. Maxey, assistant director of the S.C. Energy Research Institute in Columbia and formerly associate professor of bioethics at the University of Detroit.

On Thursday, April 17, the symposium will feature Dr. Emery N. Castle, agricultural and resource economist, educator and president of Resources for the Future, Washington, D.C.; and Dr. Robert M. Thrall of Rice University, mathematician, energy consultant and management authority.

McKetta is E. P. Schoch Professor of Chemical Engineering at the University of Texas, where in 1977, a permanent professorship in the energy field was established in his honor. In 1975 he won the coveted National Service to Society Award for his efforts in informing the public on the topics of energy and sensible environmental balance.

Thrall is Noah Harding Professor of Mathematical Sciences at Rice University and a professor in the Jones School of Administration. He is a consultant to the Texas Energy Advisory Commission and former president of the Institute of Management Science.

Before joining Resources for the Future in 1976, Castle spent 11 years at Oregon State University in various academic and administrative roles. He was dean of the faculty, head of the agricultural economics department, director of the Water Resources Institute and dean of the graduate school.

Maxey is a consultant and author of numerous publications dealing with the ethical considerations and problems of nuclear energy and nuclear wastes.

Symposium speakers will be presented each day at 2 p.m. and 4 p.m. in Daniel Auditorium. Speakers were selected by subcommittees representing each of the University's nine colleges. The

main inaugural speaker will be announced in a few weeks.

Other events include an inaugural performance of "The Night Thoreau Spent in Jail" by the Clemson Players April 16 at 8 p.m. in Daniel Auditorium and an inaugural concert by the University Concert Band on April 17 at 8 p.m. in Littlejohn Coliseum.

Inauguration day will begin with a luncheon for the delegates from various universities and colleges and learned societies, followed by the inauguration ceremony at 2 p.m., an outdoor reception and the inaugural dance at 8 p.m. in Fike Recreation Center.

NOMINATIONS FOR ALGERNON SYDNEY SULLIVAN AWARD INVITED

The Scholarships and Awards Committee invites all faculty and staff members to submit nominations for the non-student recipient of this year's Sullivan Award, which will be presented on Honors and Awards Day, April 9, 1980.

The Algernon Sydney Sullivan medallion is a valuable and artistic memorial established by the Southern Society of New York in honor of its first president. It is awarded each year by the University to two members of the graduating class and to one other person who has some interest in, association with, or relation to the institution, official or otherwise, of a nature as to make this form of recognition appropriate.

The recipients of this award shall be chosen in recognition of their influence for good, their excellence in maintaining high ideals of living, their spiritual qualities, and their generous and disinterested service to others.

Nominations should be sent to Corinne Sawyer, E-103A Martin Hall, by Friday, Feb. 15, 1980.

Non-student recipients of the Sullivan Award for the past ten years have been: 1970 - George Hubert Aull; 1971 - Gaston Gage; 1972 - Gertrude Bailey;

1973 - Josephine Stribling Lazar;
1974 - Everett Laitala; 1975 - Kenneth
Notley Vickery; 1976 - Lehman M.
Bauknight, Jr.; 1977 - Robert M. Jones;
1978 - Robert Cook Edwards; 1979 -
Earle E. Morris, Jr.

TWO ENGINEERING DEPARTMENTS RELOCATE

The Continuing Engineering Education Department and the Engineering Technology Department have moved from their Riggs Hall locations. Please use the new addresses to speed up mail delivery. The new locations and staff members affected are:

Continuing Engineering Education, 104
Rhodes Research Center: J. K. Johnson,
director, Cynthia Gaines, Kathleen
Grazer, and Cathy Colson.

Engineering Technology, 124 Freeman
Hall: J. A. Chisman, head, C. R.
Lindenmeyer, Jean Tulli, D. V. Hutton,
C. K. Roby, T. Oswald, R. L. Perry, and
J. R. McCravy.

COMPETITION OPENS FOR BIOMEDICAL RESEARCH SUPPORT GRANT FUNDS

An institution with a minimum of
\$200,000 in Public Health Service (PHS)
sponsored research grants and awards is
eligible to make application to the
National Institutes of Health (NIH) for
a Biomedical Research Support Grant
(BRSG).

The University has qualified for, applied
for, and expects to receive a BRSG in
the amount of \$30,000.

The NIH requires that an ad hoc committee
of scientific and administrative per-
sonnel, qualified by training and
experience, must be established to advise
on the intra University allocation of
BRSG funds. This committee, recommended
by appropriate college deans and appoint-
ed by the vice president for academic
affairs, includes Drs. J. D. Hatcher,
R. W. Henningson (chairman), D. M.
Henricks, L. I. Park, G. L. Powell,

G. A. Tanner, and J. B. Park. The Com-
mittee is responsible for deciding how
BRSG funds will be utilized and establish-
ing a mechanism for such use.

The Committee, consistent with Clemson
University health related research inter-
ests and NIH policies, has decided that
the BRSG funds will be utilized to support
pilot biomedical or behavioral research
by young investigators. The following
mechanism has been established to allo-
cate the BRSG funds within the University.

DEFINITIONS: A young investigator is one
generally not more than five years past
the Ph.D. Pilot research explores new
ideas to test their validity and to
provide preliminary findings necessary
to support research project grant applica-
tions.

APPLICATIONS: Applications for support
of biomedical or behavioral, health
related, pilot research projects will be
accepted from young investigators; from
faculty affiliating with Clemson Universi-
ty subsequent to Aug. 15, 1979, and from
mature investigators reorienting the
direction of their research. Applications,
utilizing NIH 398 (available from the
Office of University Research) forms
and format, should be in the Office of
University Research prior to March 1, 1980.
Interdisciplinary projects are encouraged.
Proposals should be completed to facili-
tate peer review. Budgets should contain
only items requested from BRSG funds,
and each item should be well justified.
It is tacitly understood that a subse-
quent proposal, seeking sponsored support
and based on the proposed or similar
work, will be forthcoming if funds are
allocated.

PEER REVIEW: The BRSG Committee will
expedite competitive peer review of all
proposals received prior to March 1, 1980.
Peer review will include conformance to
application requirements, quality of the
research proposed, and an evaluation of
the potential of the proposed project for
subsequent sponsored support.

ALLOCATION OF FUNDS: The BRSG funds will
be awarded, not later than April 15, 1980,

on the basis of the competitive peer review. The BRSG Committee anticipates making five or six awards from the approximately \$30,000 available to the Committee. Anonymous peer review comments will be available to the investigators of unfunded applications.

Questions concerning the BRSG, the application process, and/or the eligibility to apply for BRSG funds should be directed to the Office of University Research, telephone 2375.

AGRICULTURAL EDUCATION

J. Alex Hash (Prof) was elected chairman of the American Association of Teacher Educators in Agriculture (AATEA) Journal Editing-Managing Board during the American Vocational Association Convention at Los Angeles, CA, Nov. 30-Dec. 4. Prof. Hash served as secretary of the Editing-Managing Board for the Journal during 1979.

ARCHITECTURE

James E. Dalton (Prof and Asst to the Dean) participated and represented Clemson at a joint meeting of the Associated Collegiate Schools of Architecture and National Council of Registration Boards meeting in Atlanta Dec. 11.

BIOCHEMISTRY

G. C. Cannon (Grad Stu), W. R. Strohl (LSU), J. M. Larkin (LSU) and J. M. Shively (Prof and Hd) published a paper, "Cytochromes in Beggiatoa Alba," in Current Microbiology, Vol. 2 (1979), pp. 263-266.

K. Westphal (Univ of Hamburg), E. Bock (Univ of Hamburg), G. Cannon (Grad Stu) and Prof. Shively published a paper, "Deoxyribonucleic Acid in Nitrobacter Carboxysomes," in Journal of Bacteriology, (1979), pp. 285-288.

BUILDING SCIENCE

M. David Egan (Assoc Prof) was chairman of a technical session on "Architectural Acoustics" Nov. 29 at a meeting of Acoustical Society of America, held Nov. 27-30 at Salt Lake City, UT.

BOTANY

Kim M. Peterson (Vstg Asst Prof) has received, as co-principal investigator with W. D. Billings (Prof of Botany, Duke University), an N.S.F. grant, "Arctic Tundra: A Source or Sink for Atmospheric Carbon Dioxide in a Changing Environment?" The 18-month grant is for \$123,825.

J. E. Fairey (Assoc Prof) has been awarded an additional \$3,750 by the Corps of Engineers to continue his vegetational study of the Trotter's Shoals dam site.

CHEMISTRY

R. A. Abramovitch (Prof and Hd) was in Poland from Dec. 19-Jan. 3 in connection with his cooperative research project with scientists there. While there he participated in the Ph.D. oral final examination of one of his students from the Pedagogical University in Czestochowa. He also visited the Agricultural University in Cracow for discussions of possible cooperative research. He presented a seminar there on the topic of "Pyridine N-Sulfides and Related Compounds." He also spent time with two of his cooperative graduate students in Czestochowa. The rector of the Agricultural University in Cracow as well as the director of their Science and Food Technology Institute expressed interest in the possibility of establishing cooperative research projects with their counterparts in Clemson University. These ideas will be explored further during the coming year.

J. W. Huffman (Prof) attended the Eighth Natural Products Symposium sponsored by the University of the West Indies, Mona, Jamaica, Jan. 7-11 and chaired a session of plenary lectures. He also presented a paper, "Synthetic Approaches to

Polyhydroxyagarofurans," co-authored by G. F. Hillenbrand (Grad Stu).

Prof. Abramovitch presented two papers at the meeting of the Polish Chemical Society held at the Institute of Organic and Physical Chemistry of the Polytechnic in Wroclaw in Poland Sept. 12-15. The first, in collaboration with Adrian L. Miller (Vstg Instr), Teresa Radzikowska (Grad Stu, Pedagogical Univ of Czestochowa) and Piotr Tomasik (Prof, Agricultural Univ, Cracow), was entitled "New Rearrangements of Aryloxypyridinium Tetrafluoroborates in the Presence of Base" (Paper 1/1/27). The second, in collaboration with Barbara Bachowska (Grad Stu, Pedagogical Univ of Czestochowa) and Prof. Tomasik, was entitled "Thermolysis and Photolysis of 3- and 4-Azidopyridine N-Oxides" (Paper 1/1/28).

ENGINEERING TECHNOLOGY

James A. Chisman (Prof and Actg Hd) and John W. Hyden (Former Grad Stu) had an article, "Toward Optimal Waste Management Policies for a River Basin," published in the December 1979 issue of Computers and Operations Research, an international journal.

EXTENSION HOME ECONOMICS

Emily S. Wiggins (Asst Prof) has been appointed a member of a Comprehensive Health Education Task Force which has the main purpose of studying the South Carolina Department of Education's ongoing efforts in the area of health. This task force was formed by Dr. Charlie Williams (State Superintendent of Education).

Mrs. Wiggins and Mary M. Stone (State 4-H Youth & Development Coordinator) have been appointed Adjunct Assistant Professors of Home Economics Education at Winthrop College.

HISTORY

Charles H. Lippy (Asst Prof) presented a program on Islam to 10th, 11th and 12th grade social studies students at Westminster High School Dec. 14. He also conducted a continuing education seminar on Islam Dec. 18 for the Piedmont Presbytery Presbyterian Church in the United States.

Joseph L. Arbena (Assoc Prof) presided at the meeting of the Gran Colombian Studies Committee of the Conference on Latin American History during the annual convention of the American Historical Association in New York Dec. 27-30. Prof. Arbena served during 1979 as the elected chairperson of the Gran Colombian Committee.

Jerome V. Reel Jr. (Prof) served as critic and commentator Dec. 29 at the American Historical Association convention session on "Opera in 19th Century Europe."

HORTICULTURE

A. R. Mazur (Assoc Prof) presented two invitational papers, "Soil Amendments for Turfgrass Areas" and "Ecology of Turfgrasses," at the 18th Annual University of North Carolina Turfgrass Conference held Jan. 9-11 in Asheville, NC.

INDUSTRIAL EDUCATION

Alfred F. Newton (Prof and Hd) presented a paper, "Industrial Arts Teacher Certification Today," at the American Vocational Association, Industrial Arts Division meetings, which were held Nov. 29-Dec. 5 in Anaheim, CA. Prof. Newton also gave a report on the national study he made of teacher certification to the Industrial Arts Division Policy Committee, American Vocational Association.

LANGUAGES

John B. Romeiser (Asst Prof, French) published two articles: "A Philosophie on Crime and Punishment: Diderot's Response to Beccaria," in the French

Literature Series: Authors and Philosophers, 6 (1979), pp. 48-55, and "Portrait of the Artist as a Young Man: Claude in La Voie Royale," in Mélanges Malraux, 11, No. 2 (Autumn, 1979), pp. 20-27.

Margit M. Sinka (Assoc Prof, German) published "Composition in German: Why Can They Write?" in the Fall 1979 issue of Schatzkammer. In another section of the same issue, she also published "Ideas for Compositions in German."

Prof. Sinka also presented "Heinrich Böll's Die Verlorene Ehre Der Katharina Blum as Novelle or How a Genre Concept Develops and Where It Can Lead" at the annual meeting of the Modern Language Association in San Francisco Dec. 29.

Leonard T. Perry (Asst Prof, Spanish) read a paper, "Mariano Jose de Larra: Literature and Society - A Personal Assessment" at the 8th annual meeting of the Arkansas Philological Association Nov. 17 at the University of Arkansas, Fayetteville, AR.

MATHEMATICAL SCIENCES

P. M. Dearing (Assoc Prof), R. E. Haymond (Prof) and R. D. Ringeisen (Assoc Hd and Assoc Prof) were named to the Finite Mathematics Councils of UMAP (Undergraduate Mathematics and its Applications.)

John D. Fulton (Prof and Hd) was a guest at Daniel High School where he spoke to the mathematics club and the advanced placement calculus class on the subject "What is Operations Research?"

On Jan. 15-16 John Kenelly (Prof) attended and made presentations at a special meeting for Advanced Placement Collegiate consultants in Cincinnati, OH. The 28 college consultants were selected by the College Board to represent the six national regions and to be available to assist colleges and universities with student recruitment programs.

T. G. Proctor (Prof) has an article, "Toward the Advancement of Applied Mathematics Programs," in the December 1979

issue of SIAM News (Society for Industrial and Applied Mathematics.)

William H. Ruckle (Prof) gave a colloquium talk, "Geometric Games of Search and Ambush," at Simon Fraser University Dec. 13.

Douglas R. Shier (Adjunct Assoc Prof) has published a paper, "On Algorithms for Finding the k Shortest Paths in a Network," in Networks, Volume 9, pp. 195-214, 1979. He has also co-authored a paper with I. H. Billick (Environmental Research Group, HUD) and A. S. Curran (Commissioner of Health, Westchester County, NY), "Analysis of Pediatric Blood Lead Levels in New York City for 1970-76," in Environmental Health Perspectives, Vol. 31, pp. 183-190, 1979.

Several members of the faculty were in San Antonio, TX, Jan. 3-8 to participate in the joint winter meetings of the American Mathematical Society and the Mathematical Association of America. Some presented papers; others served on panels; while others met with committees of the mathematics organizations of which they are members. The list of their activities follows:

C. V. Aucoin (Prof), editor of UMAP Monograph series, attended a meeting of the UMAP Editorial Board. One of the main topics of discussion was the finalizing of plans for The Journal of Undergraduate Mathematics and Its Applications. The first volume is due to be published in June 1980. Prof. Aucoin will serve as an associate editor.

J. V. Brawley (Prof) gave a paper to the Session on Matrix Theory and Linear Algebra entitled "On Parametric Generation of Involutory Matrices over a Finite Field."

Thomas Carnevale (Vstg Prof) and Prof. Kenelly met with the MAA Placement Test Program Committee to review the forthcoming placement exams.

Prof. Fulton was one of four panelists for the Conference Board of Mathematical Sciences panel discussion on the subject

"Administrative Structures in the Mathematical Sciences."

Prof. Kenelly met with the MAA College Board Committee on Joint Concerns to present results of the national survey on a new Advanced Placement mathematics course.

Renu Laskar (Prof) presented a paper, "On the Total Domination Number of Graphs," with R. B. Allen (Grad Stu) and Stephen Hedetniemi (Univ of Oregon) to the Session on Graph Theory.

John K. Leudeman (Assoc Prof) presented a talk, "Morita Equivalent Semigroups of Quotients," to the Session on Groups and Semigroups.

Stanley M. Lukawcki (Prof) as regional chairman of the Annual High School Mathematics Examination met with the regional chairpersons to discuss the 1980 Annual High School Mathematics Examination which will be given in March. Fifty-five hundred South Carolina students will take this exam in 1980. This is an increase of over 1000 from last year.

T. G. Proctor (Prof) was moderator of a joint MAA and SIAM (Society for Industrial and Applied Mathematics) panel discussion, "A Report on Upper Level Mathematical Modeling Courses and Seminars." Earl E. Burch (Prof, Ind Mgmt and Math Sc) was a member of the panel. His presentation centered on a two-semester course on "Mathematical Models in Production Scheduling and Inventory Control." The course was developed at Clemson for mathematical sciences graduate students as part of the NSF Grant to Clemson, "Alternatives in Higher Education in the Mathematical Sciences."

Prof. Ringeisen gave with Marc J. Lipman (Indiana-Purdue Univ at Fort Wayne) a preliminary report to the Session on Graph Theory entitled "A Cohesion-Based Model of Stress in Friendship Graphs."

Andrew Sobczyk (S. Maner Martin Prof) presented a paper, "Symmetrical Classification of Steiner Systems on K_{15} ," and

served as alternate chairman of the Session on Combinatorial Mathematics.

PHYSICS AND ASTRONOMY

P. B. Burt (Prof) visited North Carolina State University Jan. 14-15 and gave a colloquium, "Quantum Mechanics and the Nonlinear Connection," and a theoretical physics seminar on "Renormalization and Persistent Interactions in Quantum Field Theory."

John R. Ray (Prof) recently published an article, "Cosmological Particle Creation" in Physical Review D 20 2632 (1979). The research associated with this paper was supported by a Department of Physics and Astronomy Summer Research Grant.

POLITICAL SCIENCE

Michael Morris (Asst Prof) chaired a Working Group on Latin American Geopolitics, was the Rapporteur for the Working Group on Latin American Geopolitics at the Plenary Session, and was also a discussant of a paper on "Militarism and the New International Economic Order" at the Conference on Latin American Militarism, sponsored by the Latin American Institute of the University of Stockholm, Oct. 16-20, Stockholm, Sweden.

Prof. Morris was interviewed by Australian National Television Oct. 8 about his project in Stockholm, Sweden, on Third World navies for a nationwide program on Third World military trends.

PROFESSIONAL DEVELOPMENT

Robert W. Rouse (Assoc Prof, Acct and Fin) is chairperson for the following seminars: (1) "Cost Calculation and Control of Textile Operations" to be held Feb. 19-20 on campus and (2) "How to Perform an Operations Audit" to be held Feb. 27-29 at the Ramada Inn in Greenville.

John H. Marvin (Prof, Text) is chairperson

for a conference, "Current Technology in Drawing Through Spinning: Ring and Open End," to be held on campus Feb. 19-20.

R. H. Barker (Prof, Text) is chairperson for an on-campus conference, "Control of Chemical and Mechanical Hazards," to be held Feb. 26-27.

J. Michael McDonald (Asst Prof, IM) is chairperson for a two-day seminar, "Communication and Listening to Improve Productivity," to be held on campus Feb. 27-28.

Carl Gooding (Assoc Prof, IM) is chairperson for a seminar, "Essentials of

Purchasing for Newly Appointed Buyers," to be held at the Ramada Inn in Greenville Feb. 27-29.

PSYCHOLOGY

Carol A. Furry (Asst Prof) has published a paper, "Pretest Activity and Intellectual Performance in Middle-Aged and Older Persons," in Experimental Aging Research, vol. 5, pp. 413-421.

Prof. Furry also began her term of office as president of the South Carolina Psychological Association at its meeting last October in Myrtle Beach.

FACULTY RESEARCH COMMITTEE

Proposals Funded November 30, 1979

A. F. von Recum (Interdisciplinary Studies)	Evaluation of the Suitability of the Goat as an Animal Model for Artificial Heart Research: Preliminary Trials	\$2,000
P. W. Ramsey (Nursing)	Determination of Preoperative and Post-operative Nursing Care (Protocols) of a Left Ventricular Assist Device Implantation Using a Biological Model (Goat): A Preliminary Study	\$1,500
J. B. Park (Interdisciplinary Studies)	Bone Cement Aged in <u>In Vitro</u> and <u>In Vivo</u>	\$2,000
A. R. Pinder (Chemistry)	A Chemical Investigation of the Essential Oils of Certain Forage Grasses	\$ 700
D. M. Gibson (Biochemistry)	Lectin Involvement in Plant Protection against Microbial Infection	\$ 700
J. P. Wourms (Zoology)	Developmental Biology of Viviparous Fishes	\$1,500
D. R. Alverson (Entomology & Economic Zool)	Bionomics and Control of Aphids in Greenhouses	\$2,000
F. Stutzenberger (Microbiology)	Development of Yeast Strains for Fermentation of Cellulose Hydrolysate to Ethanol	\$ 700
K. Ladenburg (Food Science)		
H. B. Bryant (English)	From Poetry to Painting: The Pre-Raphaelites	\$ 900

J. B. Romeiser (Languages)	Red Flags, Black Flags: Critical Essays on the Literature of the Spanish Civil War, 1936-1976	\$1,200
W. L. Mansker (Chemistry)	An Investigation of North Carolina Diamond Localities	\$ 800
C. S. Brown (Biochemistry)	Genetic Control of Biogenic Amine Metabolism	\$1,750
K. M. Peterson (Botany)	Physiological Ecology of <u>Sphagnum</u> (Peat Moss)	\$ 700
R. B. McKenzie (Economics)	The Economics and Social Philosophy of Albert Einstein	\$ 650
R. G. Godbee (Animal Science)	A Comparison Study Using SEM and TEM of Cell Wall Attachment and Degradation in Ruminants and Non-ruminant Herbivores	\$2,500
E. Schultz B. Barham (Nursing)	Study of the Effects of Progression Relaxation Related to Test Taking in Students of Nursing	\$ 230
L. M. Kohn (Botany)	A Monographic Revision of the Genus <u>Myriosclerotinia</u> (Fungi, Discomycetes)	\$ 900
J. W. Johnson (History)	Purchase of a Collection of Documents, Titled "Nuclear Energy: Basic Documents on Technological, Economic, Environmental and Legal Issues, 1945-1979"	\$ 900
S. Dawes N. Schultz L. Park (Psychology)	The Relationship Between Personality Variables and Running	\$ 300
L. A. Dyck (Botany)	Light-induced Chloroplast Reorientations in <u>Eremosphaera viridis</u>	\$ 850
L. Greenspoon (History)	The Dead Sea Scrolls of Joshua	\$1,800
G. S. McCutcheon (Entomology & Economic Zool.)	Seasonal Abundance and Parasitism of the <u>Sunflower Moth</u> , <u>Homoeosoma electellum</u> , in South Carolina	\$ 500
H. Ulbrich (Economics)	The Political Consequences of Economic Education	\$ 500
J. Stockham (History & Visual Studies)	International Building Safety and Directional Symbols	\$ 300
K. Alam (Mathematical Sciences)	Research Collaboration	\$ 600

T. A. Carnevale C. V. Aucoin (Mathematical Sciences)	An Assessment of Educational Needs of Two- and Four-Year College Teachers of Mathematics in the Clemson Geographical Area	\$ 900
R. G. Bursey (Food Science)	Dietary Cholesterol Levels and Vitamin A Absorption	\$ 800

Calendar of Campus Events

- 15 -- Shopping and Ice Skating Trip to the Omni in Atlanta. Sponsored by University Union, details and sign up at Union Information Desk.
- 16 -- Basketball: NC State (Men), Littlejohn Coliseum, 2 p.m.
- 16 -- Basketball: NC State (Women), Littlejohn Coliseum, 4 p.m.
- 17 -- Free Flick: "Oliver." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 18 -- German Film: "The Blue Angel." Sponsored by Department of Languages, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 18-24 -- Videotape: "Black Omnibus Special." Sponsored by University Union, loggia, shown several times daily.
- 19 -- Concert: "The New Orleans Philharmonic Orchestra." Sponsored by the Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Admission by student activity card, season tickets, or individual tickets on sale at gate.
- 19-20 -- Shortcourse: "Current Technology in Drawing Through Spinning: Ring and Open End." Sponsored by Professional Development Office, call 656-2200 for more information.
- 19-21 -- Shortcourse: "Cost Calculation and Control of Textile Operations." Sponsored by Professional Development Office, call 656-2200 for more information.
- 20 -- English Hour Lecture: Best graduate English paper of 1979. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 20-21 -- Coffeehouse: "Will Smith." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 22 -- Edgar's: "Will Smith." Sponsored by University Union, Edgar's, 9 p.m. University I.D. required, 50¢ admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 23 -- Basketball: UNC-Asheville (Men), Littlejohn Coliseum, 2 p.m.
- 23 -- Basketball: College of Charleston (Women), Littlejohn Coliseum, 4 p.m.
- 24 -- Free Flick: "Stafford Wives." Sponsored by University Union, YMCA Theater, 8 p.m. University I.D. required, no admission charge.
- 25 -- Concert: "Opera Highlights" with Boris Goldovsky, commentator and pianist, and vocal quartet. Sponsored by Clemson University Concert Series, Littlejohn Coliseum, 8 p.m. Admission by student activity card, season tickets, or individual tickets on sale at gate.
- 25-3/1 -- Play: The Runner Stumbles by Milan Stitt. A compelling psychological drama which explores the relationship between a nun and the priest accused of her murder. Presented by the Clemson Players, Daniel Auditorium, 8 p.m. nightly, 3:30 p.m. matinee Feb. 28. Open to the public, no admission charge.
- 25-3/1 -- Videotape: "Shark Attack." Sponsored by University Union, loggia, shown several times daily.
- 26 -- Workshop: "Microprocessors Tutorial." A non-technical presentation of the technical and economic considerations necessary to develop viable microcomputer applications. Sponsored by Department of Continuing Engineering Education, call 656-3308 for more information.
- 26-27 -- Shortcourse: "Control of Chemical and Mechanical Hazards in the Textile Industry." Sponsored by Professional Development Office, call 656-2200 for more information.
- 27 -- Baseball: Georgia, here, 3 p.m.
- 27 -- Reader's Theatre. Sponsored by the Clemson Forensic Union, Edgar's, 8 p.m. Open to the public, no admission charge.
- 27 -- Brown Bag Special. Sponsored by University Union, Edgar's, noon - 1 p.m. Bar will be open.
- 27-28 -- Shortcourse: "CLIP: Communication and Listening to Improve Productivity." Sponsored by Professional Development Office, call 656-2200 for more information.
- 27-29 -- Workshop: "Microprocessors Workshop." Covers microprocessor hardware, software and applications. Sponsored by Department of Continuing Engineering Education, call 656-3308 for more information.
- 27-3/14 -- Room Reservation Period. Submit application to the Housing Office.
- 28 -- Baseball: Western Carolina, here, 3 p.m.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 28 -- Distinguished Chemical Industry Seminar: Mr. William Bishop, vice president, Exxon Chemical Company. Sponsored by Chemistry and Geology Department, Earle Hall Auditorium, 1:25 p.m. and 131 Brackett Hall, 4:30 p.m. Open to the public, no admission charge.
- 28 -- Workshop: "Renal Failure - A Nursing Perspective." Sponsored by EMS Project, Continuing Education Department of the College of Nursing. Open to registered nurses only; pre-registration required. Call 656-3078 for more information.
- 29 -- Deadline for receiving applications for Michelin Undergraduate Study Grant in France. Sponsored by Department of Languages, 201 Strode Tower.

WEPR Highlights

South Carolina Educational Radio Network programs produced by Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg; WSCI 89.3 FM, Charleston; and WMPR 88.1 FM, Sumter.

- Weekdays -- MORNING EDITION, 6 a.m., a news and features magazine produced by National Public Radio with contributions from Clemson University, the University of South Carolina, and WSCI, Charleston.
- P.M., 8 p.m., music and features magazine produced by Jim Barnhill.
- Mondays -- THE OLD AND NEW WORLDS OF WORDS, 4:30 p.m., John Idol and Jim Skinner.
(18, 25) (18) "South Carolina Names," (25) "Names of Sports."
- MAJORS AND MINORS ENCORES, 11 p.m., Ray Barfield.
- Tuesdays -- A LITTLE NIGHT MUSIC, 10:30 p.m., Bill French. (19) "The American Voice,"
(19, 26) (26) "The Singer and the Instrument."
- Thursdays -- PLOTS AND PROLOGUES (on P.M.), 8 p.m.
(21, 28)
- Fridays -- MAJORS AND MINORS, 3 p.m., Ray Barfield.
(22, 29)
- PLOTS AND PROLOGUES (repeat), 4:30 p.m.
- Saturdays -- JAZZSPOT, 9:30 p.m., George Donahue. (16) "Miles Davis," (23) "Art Tatum."
(16, 23)
- Sundays -- PERFORMANCE, 9 p.m., Jim Barnhill.
(17, 24)

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 12

February 15, 1980



CLEMSON
UNIVERSITY



LABECKI TO RETIRE
AS DEAN OF NURSING

Dr. Geraldine Labecki is retiring as dean of the University's College of Nursing, an academic unit which she organized in 1968 and built into a major center for nursing education in South Carolina.

Labecki, whose retirement will become effective June 30, said, "After 40 years in leadership positions in nursing education and nursing service, I feel it's time for me to take a break and do some of the things I personally like to do."

However, she said she will remain active in health affairs in South Carolina as a private citizen and intends to do some consulting and writing.

When Labecki came to Clemson in 1968, the University's only nursing program was a two-year associate degree begun in 1965 in cooperation with Anderson Memorial Hospital. Last fall Clemson had 408 students enrolled in three nursing programs -- the two-year associate, four-year bachelor's and the master's degree program.

The bachelor's and master's program students have their clinical experiences with the Greenville Hospital System and with clients of the Anderson, Oconee and Greenville-Pickens health departments.

The college also has a continuing education program to upgrade skills of professional nurses and practical nurses. Presently under her leadership the faculty is considering a doctoral program in nursing.

Prior to her Clemson appointment, Labecki, a Brooklyn, N. Y., native, was assistant dean of the School of Nursing at Vanderbilt University. Prior to the 12 years at Vanderbilt, she was Director of Nursing Service and the School of Nursing at the Mary Fletcher Hospital in Burlington, Vt.

During her 12 years in South Carolina, she has been active in health organizations at the local, state, regional and national levels.

In the early 1970s she established a dean's award for outstanding students of the College of Nursing. In 1974 she was recipient of the first Carnation Award for professional achievement from Gamma Phi Beta national sorority.

ETV FEATURES ATCHLEY INTERVIEW

A television interview with President Bill Atchley will be broadcast by the S. C. Educational Television Network on Wednesday, Feb. 20 at 6:30 p.m.

The program can be seen in the Clemson area over channel 29, which serves the Greenville-Spartanburg area.

The videotaped interviews are part of the oral history section of the Museum of Education, McKissick Museums, University of South Carolina. The interview with President Atchley is among four programs scheduled for broadcast during February.

Other programs featured Charles S. Aimar, president, and Fred E. Wagoner, executive

secretary, S. C. Independent School Association; Charlie G. Williams, state superintendent of education; and Lawrence B. Graves, executive secretary-treasurer, S. C. High School League (Feb. 27).

PLANS BEGIN FOR UNIVERSITY SELF STUDY

The 10-year self study is an important part of the University's commitment to the excellence of its academic programs. The steering committee (Dr. J. E. Clark, civil engineering, chairman) held its first meeting Jan. 29 and elected Prof. J. G. LaTorre (math) as vice-chairman. The 12 University committees will be appointed soon.

The self-study report will be complete by Aug. 25, 1981, and the visiting committee from the Southern Association will be on campus Sept. 27-30, 1981.

President Atchley has declared the administration's earnest support of the self study to assure that it serves well its dual function: (1) to provide a thorough and honest assessment of the entire scope of University operations, and (2) to offer a guide to improvements and changes that will be necessary during the next decade. The steering committee solicits the help and cooperation of all segments of the University.

LIBRARY OFFERS TUTORIALS ON SEARCHING BIOLOGICAL ABSTRACTS

During the spring semester, the Science, Technology and Agriculture Services of the Robert Muldrow Cooper Library will sponsor four one-hour tutorials on "Searching Biological Abstracts." The tutorial is designed to introduce library users in the biological and related sciences to a comprehensive subject abstracting service and to provide information on searching the indexes of Biological Abstracts.

The tutorials will be offered Feb. 19 at 8 a.m., Feb. 21 at 4 p.m., March 4 at 8 p.m. and March 6 at 1:30 p.m. Interested persons are requested to

either call the library at 3025 or to sign up at the Science, Technology and Agriculture Services desk.

Each session will be limited to 15 participants. Additional times will be scheduled if interested persons cannot attend one of these sessions.

COLLEGE OF EDUCATION OFFICES RELOCATE

Six College of Education offices have moved in preparation for the forthcoming renovation of Tillman Hall. The new locations are:

Office of the Dean - 217 Godfrey Hall

Aerospace Studies - Mobile Office Units
#1 and #2 (near Redfern Health Center)

Agricultural Education - 414 College of
Nursing Building

Educational Services - 215 Godfrey Hall

Military Science - Ground Level, Harcombe
Commons, Johnstone Hall

Vocational Education

Media Center - Basement of Godfrey Hall

Telephone numbers for these offices have not changed.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

B. L. Dillman (Prof) published a book review of Rural Poverty and the Policy Crisis by Robert O. Coppedge and Carlton G. Davis (eds.) in The Annals of Regional Science, Vol. XIII, No. 2: pp. 147-149.

AGRICULTURAL ENGINEERING

A number of faculty members and students gave papers at the 1979 winter meeting of The American Society of Agricultural Engineers in New Orleans, LA, Dec. 11-14. The following papers were presented pertaining to the overall theme of "Regulations: the New Dimension to Agricultural Engineering."

--"Photographic Evaluation of Soil Incorporation Uniformity" by J. A. Collier

(Asst Prof), T. H. Garner (Prof) and P. M. Burrows (Prof, Exp Stat).

--"Breeding and Gestation Units for Confinement Swine Production" by C. L. Barth (Prof), G. D. Christenbury (Assoc Prof) and J. E. Albrecht (Assoc Prof, An Sci).

--"Risk Assessments for Agricultural Jobs" by D. L. Roberts (Prof).

--"Comparison of Methods of Estimating Soil Moisture Regime" by C. E. Martin (Grad Asst), B. G. Worm (Grad Asst) and T. V. Wilson (Prof).

--"Critical Appraisal of On-Farm Methane Digesters" by C. L. Barth and R. O. Hegg (Assoc Prof).

--"Potential for Unheated Air Drying of Grain in South Carolina" by J. M. Bunn (Prof), W. R. Lea Jr. (Grad Asst) and G. Hammond (Comp Prog).

--"A Microcomputer-Based Control System for Grain Combines" by G. E. Miles (Asst Prof), M. K. Richardson (Prof, Mech Engr) and R. E. Dodd (Instr).

--"Engineering Applications of the Radio Shack TRS-80 Microcomputer" by G. E. Miles and G. Hammond.

--"Automatic Data Acquisition and Data Processing with a Single Board Computer" by G. E. Miles, W. H. Allen (Assoc Prof), D. Wolf (Vstg Prof) and T. H. Garner.

J. R. Lambert (Prof) and E. W. Page (Assoc Prof, Comp Sci) presented a one-day short course on "Microcomputer Interfacing" Dec. 10-11 preceding the ASAE Winter Meeting.

AGRONOMY AND SOILS

James H. Palmer (Prof) attended and chaired the Soybean-Small Grain Session of the Mid-Atlantic Seed Processor's Workshop in Raleigh Dec. 11-13.

BUILDING SCIENCE

M. David Egan (Assoc Prof) has been named by the Institute of Noise Control Engineering (INCE) Board of Directors to serve as associate editor of the bimonthly INCE publication NOISE/NEWS.

CHEMICAL ENGINEERING

J. M. Haile (Asst Prof) and P. W. Haile have had their translation of the D. Sc. dissertation of Jean-Paul Ryckaert published by University Microfilms International. The dissertation is entitled "Computer Simulation of Liquid n-Alkanes by Molecular Dynamics" and was originally submitted to the Free University of Brussels.

Prof. Haile attended, by invitation, a workshop on "The Problem of Long Range Forces in Computer Simulation of Condensed Media" Jan. 8-11. The workshop was held at Menlo Park, CA, and sponsored by the National Resource for Computing in Chemistry (NRCC).

CHEMISTRY AND GEOLOGY

N. P. Marullo (Prof) has been awarded a grant by the National Science Foundation to support undergraduate research participation in the Department of Chemistry. The grant, which is for \$18,604, will be used to bring in undergraduates from outside colleges to do research in chemistry with various faculty members during the summer months of 1980. Since Prof. Marullo is presently on sabbatical leave at the Naval Research Labs in Washington, his place as principal investigator will probably be taken by Prof. Joseph von Rosenberg with the assistance of Prof. Joe Allen.

Keith McDowell (Assoc Prof) has been awarded a \$3,000 grant from the National Resource for Computation in Chemistry for a proposal entitled "Molecular Applications of Perturbative Corrections to an Incomplete Basis Set." The grant will be used to carry out computations at the Lawrence Berkeley Laboratory Computer Center.

Prof. McDowell has published a paper, "The Incomplete Basis Set Problem. III. Virtual Orbitals and the CIBS Expansion of Hartree-Fock Energies," in Int. J. Quantum Chem. Symp. 13, 51 (1979).

Villard S. Griffin Jr. (Prof) presented a seminar Jan. 25 before the students and faculty of the Furman University Geology Department on "The Inner Piedmont Belt."

R. A. Abramovitch (Prof and Hd) presented a seminar to the American Chemical Society Student Section at Armstrong State College in Savannah, GA, Jan. 21. The title of the talk was "Chemistry, Medicine, and Agriculture."

Prof. Abramovitch has published a paper in collaboration with E. P. Kyba (Univ of Texas) entitled "Photolysis of Akyl Azides. Evidence for a Non-Nitrene Mechanism" in the Journal of the American Chemical Society, 1980, 102, 735.

Prof. McDowell has published a paper, "An Integral Equation Approach to Scaled 1/Z-Expansions of Hartree-Fock Energies," in J. Chem. Phys. 72, 736 (1980).

ELEMENTARY AND SECONDARY EDUCATION

R. Ken Peden (Prof) has been appointed chairperson of the Safety and Emergency Health Care Section of the American School Health Association for 1979-82.

ECONOMICS

Russell Shannon (Prof) published "Scarcity" in the January 1980 issue of The Freeman, pp. 3-9.

ENTOMOLOGY AND ECONOMIC ZOOLOGY

T. R. Adkins Jr. (Prof) was invited to serve as a member of the National Research Council's Postdoctoral Fellowship Evaluation Panels. At the request of the National Science Foundation, these NRC

Panels, consisting of 77 scientists from various colleges and universities, evaluated the applications for NSF Postdoctoral Fellowships Dec. 7-8 in Washington, DC.

"Effects of Ecdysone, Juvenile Hormone, and Structurally Related Compounds on Nomuraea rileyi, Beauvaria bassiana, and Tritirachium dependens In Vitro," a paper by R. M. Sutton, W. A. Gardner (former Grad Res Assts), D. W. Kraus (Grad Res Asst) and R. Noblet (Prof), was published in the Journal of the Georgia Entomological Society.

Clyde S. Gorsuch (Asst Prof) was chairman of the Plant Pathology and Entomology Section at the 55th annual meeting of the Cumberland-Shenandoah Fruit Workers' Conference held at the Cliffside Motor Inn, Harpers Ferry, WV, Nov. 15-16.

Among the papers presented at the National Meeting of the Entomological Society of America at the Hilton Hotel, Denver, CO, Nov. 25-29 were:

--"Pyrethroid Susceptibility in Heliothis virescens Resistant to Methyl Parathion in South Carolina Cotton" by T. M. Brown (Asst Prof).

--"Chemical vs. Biological Control of Hypera postica on Alfalfa in S.C." by L. C. Hearn (Grad Res Asst) and T. E. Skelton (Prof).

--"Physiological and Pathological Studies with Nomuraea rileyi in Noctuid Hosts" by Prof. Noblet and R. M. Sutton.

Among the papers presented at the Southeastern Branch Meeting of the Entomological Society of America held at the Royal D'Iberville Hotel, Biloxi, MS, Jan. 29-31 were:

--"A Pre-Impoundment Mosquito Study of the Proposed Richard B. Russell Dam Project on the Savannah River" by Jonathan R. Davis (Grad Asst) and T. R. Adkins Jr. (Prof).

--"Comparison of the Efficacy of Dichlorvos (DDVP: Vapona®) and Malathion Against Flies Attacking Cattle" by S. H. Barnett

(Grad Asst), R. J. Hack (Entomologist I), Prof. Adkins and A. W. Broadbent (Undergrad Stu).

--"The Residual Effectiveness of Ectiban[®] and Rabon[®] on Building Surfaces Against Flies" by R. J. Hack, S. H. Barnett, Prof. Adkins and A. W. Broadbent.

--"Seasonality of Aphids Infesting Hybrid Tea Roses" by David W. Parler (Grad Res Asst) and David R. Alverson (Asst Prof).

--"Survey of Pecan Weevil Emergence and Edaphic Factors in S. C. Orchards" by Prof. Alverson.

--"Sunflower Insects in S. C." by Jay W. Chapin (Asst Prof).

--"Residual Effectiveness of Candidate Pesticides Against the Southern Corn Billbug" by J. A. DuRant (Prof).

--"Mechanical Rotovation of Poultry Manure and Its Effect on House Fly Populations at a Commercial Cage Layer Farm" by J. B. Kissam (Prof) and T. Chris Furqueron (Grad Asst).

--"The Effect of Permethrin (Atroban[®]) Treated Orlon[®] Acrylic Cord on the House Fly Population at a Commercial Narrow Cage Poultry Farm" by T. Chris Furqueron and Prof. Kissam.

--"Distribution of the Face Fly in S.C. 1979" by Liz Gilreath (Vstg Instr).

--"Seasonal Abundance of Arthropods in S. C. Peach Orchards Using Whole Tree Sampling" by Glenn T. Lee (Grad Asst) and Clyde S. Gorsuch (Asst Prof).

--"Two S. C. Apple Borers: A Discussion of Their Life History and Importance" by Prof. Gorsuch.

--"Results of Boll Weevil Field and Highway Trap Line Surveys in N. C. and S. C." by A. E. Miller (APHIS), W. A. Dickerson (USDA), and D. R. Johnson (Asst Prof).

--"The Use of Pheromone Traps to Monitor Heliothis virescens Populations in Cotton"

by Prof. Johnson.

--"Use of an Electrostatic Sprayer for Cotton Insect Control" by D. G. Manley (Asst Prof).

--"Predation by Calosoma sayi on Pupae of Heliothis zea, Anticarsia gemmatalis, and Spodoptera exigua" by Tim Reed (Grad Asst) and Merle Shepard (Assoc Prof).

--"Resurgence of Selected Soybean Insect Pests in Response to Single Applications of Insecticides" by John D. Hopkins (Grad Asst), S. C. Turnipseed (Prof) and Prof. Shepard.

--"Biology of Euplectrus plathypenae Howard (Hymenoptera: Eulophidae) on Yellow-striped Spodoptera ornithogalli (Guenee) and Beet, S. exigua (Hubner) Armyworms" by Pat Parkman (Grad Asst) and Prof. Shepard.

--"Biology of an Australian Strain of Trissolcus basalis (Wollaston) (Hymenoptera: Scelionidae): A Parasitoid of the Southern Green Stink Bug, Nezara viridula" by Janine E. Powell (Grad Asst) and Prof. Shepard.

--"Mosquito Larvae of the Richard B. Russell Dam and Lake Area" by Mary Delaney (former Res Tech) and John C. Morse (Assoc Prof).

--"Reactions of Cerura borealis (Boisduval) Larvae to the Sound Pitch F (Lepidoptera: Notodontidae)" by Tina R. White (Grad Res Asst) and John S. Weaver (Grad Res Asst).

S. B. Hays (Prof and Hd), governing board member of the Entomological Society of America, attended and participated in governing board activities during the recent national meeting of ESA held in Denver, CO. He also took part in the National Entomology Department Heads meeting also held in Denver.

ENGLISH

Bruce Firestone (Asst Prof) read "William Styron's Two Nathans" at a conference

sponsored by the Comparative Literature Circle of Florida State University, Jan. 24-26.

John Idol (Assoc Prof) and William Koon (Assoc Prof) published reviews in Studies in Short Fiction, 16 (Summer 1979): Prof. Idol reviewed Carl Miller's Building Poe Biography (pp. 248-9) and Prof. Koon reviewed Flannery O'Connor and Caroline Gordon: A Reference Guide by Robert E. Golden and Mary C. Sullivan (pp. 250-1).

Roger Rollin (Lemon Prof) is the author of "Milton and the Metaphysical Poets" included in A Milton Encyclopedia, Vol. 5. Ed. William B. Hunter, Jr., et al (Granbury, N.J.: Associated University Presses, 1979), pp. 110-14.

Edward P. Willey (Assoc Prof) published three poems in The Poet (Autumn 1979): "Revelation," p. 255; "Atrium," p. 325; and "Direction," p. 366.

The South Carolina Review has received a grant of \$1,500 from the Coordinating Council of Literary Magazines.

Two members of the English faculty were listed in the program of the annual meeting of the Modern Language Association held in San Francisco Dec. 27-30: Ronald Lunsford (Asst Prof) served as a panelist on the special session devoted to "Building a Training Program for Writing Teachers"; Elisa Sparks (Asst Prof) served as a panelist on the special session devoted to "Children's Literature and Literary Criticism."

Bernard Duffy (Asst Prof, Speech) presented a lecture, "Improving Your Speaking Effectiveness," at the South Carolina Extension Conference in Myrtle Beach Dec. 4.

Sterling Eisiminger (Asst Prof) published "Epitaph for a Six-Day Old," a poem, in Bitterroot, 18 (Autumn 1979), 58.

Prof. Firestone published an essay, "William Styron," in Southern World, 1, No. 6 (1980), 52-3.

Prof. Idol has been elected president of the South Carolina Conference of the American Association of University Professors.

FOOD SCIENCE

The Marnat/SoPakCo Company of Bennettsville has donated to the department a new thermal and pressure processing unit valued at \$10,000 which will make possible an expanded research effort with flexible pouches. The equipment will also be used in teaching and public service activities of the department.

Mr. and Mrs. Ed Greene of Bennettsville have made a gift of \$4,000 to the department for support of departmental activities.

Reginald A. Gallop (Vstg Prof) will present a seminar Feb. 21 at 4 p.m. in A-102 of the P&AS Building entitled "The Future of the Agricultural Sciences."

Charles V. Morr (Stender Prof) recently published "Functionality of Whey Protein Products" in New Zealand Journal of Dairy Science and Technology 14 (2): 185. 1979.

FORESTRY

R. D. Williamson (Adj Assoc Prof, USDA Forest Service) recently received from the USDA a cash award and a certificate of merit for development of a slide-tape program, "Paths of Opportunities," which has significantly contributed to Forest Service recruitment of minorities. The program is being distributed nationwide by the Forest Service.

R. L. Hedden (Assoc Prof) and R. F. Billings (Principal Entomologist, Texas Forest Service) co-authored a paper, "Southern Pine Beetle: Factors Influencing the Growth and Decline of Summer Infestations," in Forest Science: Vol. 25.

Prof. Hedden authored "Methods Used for Evaluating Southern Pine Beetle Control Tactics," published in Evaluating Control

Tactics for the Southern Pine Beetle,
USDA Tech Bull 1613.

The following individuals authored contributed papers in the recently published Proceedings of the First South Carolina Endangered Species Symposium held November 1976 in Charleston:

--"The Red-Cockaded Woodpecker: Management Research Needs," co-authored by M. R. Lennartz (Adj Prof, USDA Forest Service), R. G. Hooper (Adj Prof, USDA Forest Service) and R. F. Harlow (Adj Prof, USDA Forest Service).

--"Evaluation of the Current Literature on the Red-Cockaded Woodpecker," authored by G. W. Wood (Assoc Prof).

--"Bachman's Warbler--The Most Critically Endangered," co-authored by P. B. Hamel (Grad Stu, Zoo) and Prof. Hooper.

--"Swainson's Warbler in South Carolina," co-authored by Prof. Hooper and P. B. Hamel.

--"The Phytogeographical Characteristics of Shortia galacifolia in Oconee and Pickens Counties, South Carolina," co-authored by B. A. Dunn (Assoc Prof) and S. J. Jones (Res For).

R. E. Schoenike (Prof) and D. D. Simmons (Grad Stu) published a paper, "A Bibliography of Leyland Cypress with Brief Annotations," as Department of Forestry, Forestry Bulletin No. 20.

The Georgia Forestry Commission has recently provided funding for support of two research projects. The investigation of "Prescribed Burning in Mixed Pine-Hardwood Stands of the Southern Appalachian Mountains" was granted \$25,278. Research is to be conducted under the supervision of D. H. Van Lear (Prof). The investigation of "Amount and Control of Sprouting from Sheared and Chain-Saw Cut Hardwood Stumps" was granted \$30,164. Research is to be conducted under the supervision of A. E. Miller (Asst Prof).

HISTORY

Richard M. Golden (Asst Prof) was the commentator of a session, "New Perspectives: American Research on French Jansenism," at the annual convention of the American Historical Association, New York City, Dec. 28.

INTERDISCIPLINARY STUDIES

J. B. Park (Assoc Prof) has presented a paper, "Development of Percutaneous Implant Using Ion Beam Sputtered Surface," in a Seminar on Biomedical Applications of Ion Thruster Technology sponsored by NASA Lewis Research Center and Case Western Reserve University, Cleveland, OH, Jan. 7. The paper was co-authored by A. F. von Recum (Prof), G. H. Kenner (Assoc Prof) and R. Yamamoto (Grad Stu).

MATHEMATICAL SCIENCES

John K. Luedeman (Assoc Prof) and James A. Bate (former Grad Stu) have published a paper, "The Ring of Quotients of $R(S)$," in Semigroup Forum Vol. 18 (1979) 271-278.

Daniel D. Warner (Assoc Prof) and C. L. Wilson have published a paper, "Two-Dimensional Concentration Dependent Diffusion," which just appeared in the January 1980 issue of The Bell System Technical Journal (pp. 1-41).

Prof. Warner gave a colloquium at Armstrong State College in Savannah, GA, Jan. 25 on "Shazam, A Shortcut for Computers."

MUSIC

Edith B. Card (Asst Prof) presented a program of vocal and dulcimer Appalachian folk music at the Fellowship Club ladies night Christmas Banquet Dec. 18 at the Clemson House.

NURSING

Gamma Mu Chapter of Sigma Theta Tau, National Honor Society in Nursing, sponsored presentation of research by two faculty members Jan. 14. Gloria Tanner (Assoc Prof and Dir of Nurs Res) reported on "Compliance with Therapy in Adults with Essential Hypertension." Priscilla Ramsey (Vstg Instr in Nursing) discussed "Determination of Pre-Operative and Post-Operative Nursing Care (Protocols) of a Left Ventricular Assist Device Implantation Using a Biological Model (Goat)."

Arline M. Duvall (Prof) participated in the orientation meeting held Jan. 4 in Columbia for the South Carolina White House Conference on Families.

Harriet Schneider (Univ of Mississippi Medical Center, formerly with the National League for Nursing's Department of Tests and Measurement) presented a workshop on "Clinical Performance Evaluation of Nursing Students" for the baccalaureate degree program faculty Jan. 9.

PHYSICS AND ASTRONOMY

John Ray (Prof) presented a colloquium Jan. 28 at the Physics and Astronomy Department of Georgia State University on "Time Dependent Invariants and Cosmological Particle Creation."

PROFESSIONAL DEVELOPMENT

E. Earl Burch Jr. (Prof, IM) is chairperson for a two-day course, "Effective Production Planning and Control and Inventory Management," to be held March 4-5 on campus.

Hassan Behery (Prof, Text) is chairperson for the following conferences to be held on campus: "New Developments in Texturing Technology," March 5-6, and "Carpet Manufacturing Technology," March 11-12.

Hendrikus E.J.M.L. Van Bulck (Asst Prof, IM) is chairperson for a two-day seminar, "How to Estimate and Control

Manufacturing Costs," to be held on campus March 6-7.

Frederick T. Simon (Prof, Text) is chairperson for a two-day conference, "Color Sorting with Instrumentation," to be held on campus March 11-12.

Kathryn S. Collins (Adm Asst) spoke on brochure development at the National University Extension Association's annual conference, "Management Education in the '80's," held in Ft. Lauderdale, FL, Jan. 23-25.

RECREATION AND PARK ADMINISTRATION

Jack Stevenson (Prof) led a workshop session on "Interpersonal Communication Skills" for the Alumni National Council at their first annual workshop held Jan. 18 at the Alumni Center.

Lewis W. Moncrief (Adj Assoc Prof) will be working with the U. S. Forest Service Forest Recreation Economics Project until September 1980 through an Intergovernmental Personnel Act agreement. He is a professor at Michigan State University, East Lansing, MI, in the College of Agriculture and Natural Resources, Departments of Park and Recreation Resources and Resource Development. While at Clemson, Prof. Moncrief will develop a problem statement and design a research program to assess the impact of energy costs and availability upon regional economics in Southern Appalachia and the Southeast. A major focus of the proposed research program will be devoted to assessing the changes in the recreation and tourism related industries in the Southeast due to changing energy conditions.

WEPR

Public radio WEPR program director Bo Bierley has been elected vice-president of the South Carolina Associated Press Broadcasters Association for 1980. The organization serves as an advisory body to Associated Press operations in South Carolina. Founded in 1848, AP is a non-profit news cooperative and the largest

news-gathering and disseminating operation in the world.

ZOOLOGY

Dr. Kenjiro Yamagami (Zoological Institute of the University of Tokyo, Japan) presented a seminar, "Mechanisms of Hatching in Fish: Secretion of Hatching Enzymes and Enzymatic Choriolysis."

John P. Wourms (Assoc Prof) and Julian C. Lombardi (Grad Stu) presented a paper at the 19th Annual Meeting of the American Society of Cell Biology,

Toronto, Canada, Nov. 4-8, "Cell Ultrastructure and Protein Absorption in the Trophotaenial Epithelium: A Placental Analogue of Viviparous Fish Embryos." An abstract was published in Journal of Cell Biology 83 (2, pt. 2): 399.

MINUTES OF THE EDUCATIONAL COUNCIL MEETINGS, OCTOBER 29 AND DECEMBER 3, 1979

See addenda.

MINUTES OF THE FACULTY SENATE

December 11, 1979

Senate Chamber

1. Call to Order

The meeting was called to order by Vice President Thompson at 4:18 p.m.

2. Approval of Minutes

The Minutes for November 20, 1979 were approved as written.

3. Committee Reports

(A) Admissions and Scholarship - Senator Grubb

The Committee met Tuesday, December 4, and completed drafting its recommendations of a revision in the University's admissions policy. These recommendations will be presented to the Faculty Senate at its next meeting.

The next meeting of the committee will be January 8, 1980, in Strode 411 at 3:30 p.m.

Respectfully submitted,

(Signed)

Alan Grubb, Chairman

(B) Policy - Senator West - No Report

(C) Research - Senator Smith

Senator Smith noted that his committee was continuing its work on the revision of the University copyright policy. The committee will meet next on Wednesday, January 9, 1980 in the P&AS Building.

(D) Welfare - Senator Baron - No Report

(E) Ad Hoc Committees: No Reports

(F) University Committees: No Reports

4. President's Report:

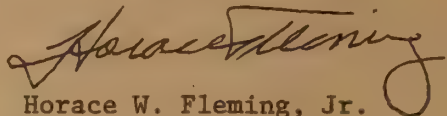
1. In an effort to finally clarify the issue of disposition of the surplus group life insurance funds, a meeting was held Friday, December 7 in President Atchley's office. Those present were President Atchley, Vice President Barnette, Messrs. Trescott Hinton and Ron Herrin, Dean Sam Willis and me. I will report the outcome to you at our Tuesday meeting.
2. On Monday, December 3, the Educational Council met and considered, among other items, the joint resolution of the Student Senate and Faculty Senate calling for rescission of the regulation on page 52 of the 1979-1980 Undergraduate Announcements which requires re-examinations for graduating seniors with deficient grade-point ratios.

The resolution was tabled after a lively and probing discussion. The Council expressed a desire to have the entire set of scholastic regulations (pages 42-52) reviewed and revised as necessary, encompassing other recommendations which we and others have made on various of these regulations. I voted against tabling the resolution, pointing out that action on these regulations has not been forthcoming on previous occasions when requested by the Faculty Senate. I do believe, however, that such a comprehensive review which takes into account our previous recommendations is the preferable way of proceeding. Dean Hurst will consult with us on alternatives for constituting the review committee.

3. A copy of FS 79-3-11 has been forwarded to Vice President Barnette for comment. The cover letter is appended to this report.
4. On November 28, the Department of University Relations produced the first issue of the Senate Special, a copy of which is appended. Unfortunately, it now appears that, because of limitations on University Relations (loss of some staff through attrition and cessation of CETA funding for other staff) coupled with other higher priority work in progress, the specials which had been planned may not materialize. This first "sample" issue clearly demonstrates the utility of the concept, and I know you share my disappointment over this development. I will speak further with President Atchley about the matter, just as I have spoken with Dean Hurst and Vice President Nicholas. I hope some way can be found to make the necessary resources and staff available for this project. It is the foundation for the improved system of internal university communications which we so sorely need.
5. On November 19, 1979, the Council of Deans proposed that sums of \$5000 each be set aside as awards to graduate students to be known as "Alumni Graduate Fellows." The Council hope that these awards will be supplemented by teaching or research assistantships funded by the college in which the student is enrolled and, further, that they will recognize and attract to our graduate programs truly superior students. The awards would be made to students working for either the masters or doctoral degree. Specific criteria for these awards will be determined and mutually agreed upon by the Council of Deans and the Graduate Council. The awards will be made for one fiscal year with the opportunity for reapplication by those already holding the awards.
6. The Faculty Senate reception in honor of the Board of Trustees will be held on Friday, January 25, 1980 at the Alumni Center. Vice-President Thompson, who has arranged the reception, will provide details during the meeting. (The Board will meet on campus January 25-26.)
7. On Thursday, December 5, a meeting was held on campus with students, administrators and a representative of the local cable TV franchise in attendance to explore a proposal for campus acquisition of this service. I represented the faculty at the meeting. The meeting amounted to little more than a familiarization with the service available and expression of the desire by students to have the University subscribe, either in selected locations or campus-wide (including service to individual rooms). I will keep you advised of substantive developments in this matter.

8. President Atchley was very appreciative of the time and effort expended by the Faculty Senate in commenting on his proposal for the University Council. After he has had an opportunity to consider these, he will give us some indication of how acceptable they are. He has stated that they will be helpful and are by no means extraordinary in nature.
9. Primarily because of the limited opportunity he has had to review the resolutions passed at our last meeting, Dean Hurst cannot yet respond to them. We will have some response, however, very shortly.
10. The Advisory Committee has not met since our last regular Senate meeting, there being no business to come before that body.
11. On Friday, November 30, the Faculty Senate of the University of South Carolina approved a resolution asking that college and university faculty be exempted from state grievance procedures. A related story from the Columbia State is attached.

Respectfully submitted,



Horace W. Fleming, Jr.
President, Faculty Senate

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Vice-President Thompson called attention to item one, noting that President Fleming has additional information which appears in a letter to the Senate which Senator Thompson then distributed (See Attachment A).

Senator Baron objected to part of President Fleming's letter because it did not empower policyholders to make the final decision. Vice-President Thompson explained that the Ad Hoc Committee on Insurance will be reactivated and recharged with resolving this question. They will call a policyholder's meeting for the purpose of discussing what they want done with the funds in question. The results of the discussion will then be turned over to the President's Cabinet for a final decision.

Item two was amended to read as it does in these Minutes.

With regard to item four, Mrs. Beulah Cheney announced that the Senate Special publication is now in limbo but it may be reinstated. The problem relates to personnel deficiencies and the increased workload of university publications. She described the rather large effort necessary to produce the Senate Special but indicated that she had "positive vibes" as to the future of the publication. She hopes to continue to monitor Senate meetings to that end.

Senator Grubb inquired whether the old Newsletter had been terminated. Mrs. Cheney replied that it had, at least in theory, but "we must await events." The new Newsletter will be different, with wider kinds of information, and it will contain no more minutes.

Senator Rollin requested the "senate scribe" to prepare and distribute a document similar to the Senate Special. Secretary Coulter respectfully declined due to lack of funds, but promised to work with Mrs. Cheney to get something out for this month - at least to the Senators, who could distribute it to their colleagues as they see fit.

Mrs. Cheney was commended for her efforts thusfar by the Senate.

Vice President Thompson announced that the Board of Trustees Meeting with the Senate will be similar to last year's meeting, which prompted Senator Young to suggest that Senate spouses also be invited. The suggestion was endorsed by several Senators. Senator Thompson noted a possible problem with funding but took the matter under consideration. Senator Worm suggested a better "labeling system" of participants next time and was promised the same.

5. Old Business: None

6. New Business:

Senator Howard inquired as to why he had received a copy of the non-faculty employees new graduated discipline policy. Several theories were advanced, but no answer to the mystery of distribution or intent (veiled or otherwise) was determined. The issue was consigned to the realm of administrative inscrutability where it will presumably rest.

Vice President Thompson then convened the Committee of the Whole to discuss two salutary letters - one to the Clemson Football Squad and the other to the Soccer Squad. A spirited debate ensued concerning the suitability of such letters and the propriety of singling out these two activities for meritorious recognition when equal achievements have been registered by many groups within the university community. Other extraneous issues entered the discussion which added little to the resolution of the question of the letters themselves.

After reconvening the Senate and hearing a motion to adopt and send the letters, Senator Snipes moved to amend both letters by striking the second paragraph of each "because it was incorrect." Before this could be discussed, Senator Baron moved to table both letters. The motion lost. A brief discussion ensued about Snipes' motion to amend. The question called and the motion was approved. The amended letters (Attachments B and C) were approved by the Senate to be sent by President Fleming at his earliest convenience.

7. Announcements:

Senator Howard announced that he was taking a semester's Sabbatical leave and would be represented next semester by Dr. Jack Stevenson.

8. Adjournment: The Senate adjourned at 4:56 p.m.

Respectfully Submitted:

Edwin M. Coulter
Edwin M. Coulter, Secretary

Members Absent:

Dick, Quisenberry, Blanton, Edie, Rouse, Fleming,
Burt, and Schindler



CLEMSON
UNIVERSITY

FACULTY SENATE

December 5, 1979

Mr. Melvin E. Barnette, Vice President for
Business and Finance
206 Sikes Hall
Clemson University
Campus

Dear Mr. Barnette:

At the November 20, 1979 meeting of the Faculty Senate, the attached resolution was passed. I am forwarding it to you for whatever response you may wish to provide us.

Thank you for your consideration. We look forward to receiving any comments you have or suggestions on the matter prior to any further discussion by the Faculty Senate.

Sincerely,

Horace W. Fleming, President
of the Faculty Senate

xcc: Faculty Senate

Robert L. Fuzy, President of the Student Body
Jeffrey M. Anderson, President of the Student Senate
Victor Hurst, Vice President for Academic Affairs and
Dean of the University

Resolution 79-11-3 was attached to this
letter to Mr. Barnette (See p. 9 of the
November 20 Faculty Senate Minutes)

USC Faculty Wants Out

By WARREN McINNIS
Staff Writer

University of South Carolina faculty members Friday approved a resolution asking that they be removed from the authority of the State Personnel Division.

The university has been in a stew ever since two opinions from the State Attorney General's Office said

faculty members have the right to go right to the State Grievance Committee over job matters. The opinions were given in August 1978 and August 1979.

The opinions give the state grievance committee authority over university faculty and administrative decisions such as promotion or dismissal rather than leaving such matters up to the university, a practice of peer

From Under State Personnel

judgement which is traditional in the academic world.

Under the opinions, a faculty member disgruntled with USC's final word on an employment decision could carry the matter to the State Grievance Committee designed to handle complaints from most state employees.

The resolution urges university officials to "take immediate action to forestall all efforts by the Budget and Control Board and the State Personnel Division to encompass faculty."

It also urges that necessary steps be taken "to protect the traditional status, rights and responsibilities of faculty in regard to the governance of the university as provided for by historical precedent, action of the board of trustees and state and federal law."

There is a bill proposing that faculty members at state institutions of higher learning be exempted from the state grievance committee coverage which was passed in the House and is pending in the Senate.

Some state employees are already exempt from state grievance committee coverage such as employees of the General Assembly and certain gubernatorial employees.

Although the resolution was passed in a voice vote, some faculty members said the university's grievance procedure should be improved before deciding to keep employment decisions solely in the hands of the university.

President James B. Holderman told the faculty that the "delegation of authority within the university is a conventional one which reflects the traditional model of the university as a largely self-governing institution of higher learning."

Holderman also said the state attorney general's office disregards powers given to the university board of

trustees by previous legislation.

USC Provost Francis T. Borkowski said, "In comparison to many colleges and universities, the University of South Carolina is in an enviable position. There is a well established pattern of faculty participation at the university through a variety of organizational mechanisms in most of the basic areas of institutional policy. Faculty participation in governance at the university is definitely not a fiction."

He said faculty members' being covered by the State Grievance Committee is "an anathema to the traditional rights and responsibilities of academic institutions."

Dr. Perry Ashley, chairman of the USC faculty advisory committee, said there is an ad hoc committee studying possible alterations to USC's own grievance system.

Among those speaking in favor of the resolution was Dr. M.G. Abernathy who said, "Tenure and promotion call for peer review."

But Eldon Wedlock Jr. of the law school faculty said, "There is dissatisfaction with existing procedures" at USC. I believe we would be better off doing it ourselves but I question our present system."

He added maybe there are aspects of the state grievance committee that "we shouldn't give up if we don't have something acceptable in its place."

Dr. Rufus Fellers of the college of engineering said that under the state grievance committee, tenure "will no longer exist and those who don't have it will never get it." He added that putting faculty members under the state grievance committee would put the university "on the path to oblivion."



Senate Special

The Faculty Senate Nov. 20 recommended major changes in the makeup of a new University Council which has been proposed to replace the existing Educational Council. The action followed a 45-minute closed discussion about the proposed council's purpose and authority.

The recommendations were developed by an ad hoc committee, chaired by Senate Secretary Ed Coulter and appointed in response to President Bill Atchley's request for suggestions about his plans to restructure the current council. That request came in an Oct. 12 memorandum which was circulated among campus administrators, the Faculty Senate, the Student Senate and the Graduate Student Association.

In the Faculty Senate version the council would consist of the president; the vice presidents for academic affairs, business and finance, and development; the dean of graduate studies and university research; the dean of admissions and registration; the director of university relations; a department head; the presidents of the Faculty Senate, Student Body and Student Senate; three college deans; and six faculty representatives.

The Senate version also excludes four members originally proposed; the vice president for executive affairs, a University librarian, a staff member appointed by the president for a three-year term; and the president of the Graduate Student Association.

The Senate proposes that all faculty representatives be elected by the Faculty Senate. In the original proposal the six faculty members would consist of three senators appointed by the president of the Faculty Senate and three faculty members appointed by the president upon

recommendation by the dean of a college.

In contrast to the original proposal, the Senate recommends the vice president for development and the director of university relations be ex-officio, non-voting members. The president's memorandum did not designate any members as ex-officio, non-voting members.

Also, the Senate proposes that deans would serve rotating terms decided by the president, and the faculty members would serve one-year renewable terms.

To a list of "specifics" supporting its proposal on makeup, the Senate added a recommendation that the president of the Faculty Senate and the president of the Student Body continue as permanent members of the President's Cabinet, whatever new form of governance should emerge.

The Senate prefaced its recommendations with a statement of "understanding and impressions" based on the ad hoc committee's conversations with President Atchley.

The statement notes that:

--the creation of the council and its supporting commissions would not change normal day-to-day operations among faculty, department heads and deans.

--the council will meet monthly or on call to advise and offer campus-wide input, but will not constitute a continuing policy-recommending body.

--major "integrative activity" will be in a second-tier group of four or five council commissions made up of representatives from relevant interest areas.

--the precise nature, role and structure of commissions will be determined after the council has been created.

--some of the administrators on the council will provide administrative expertise, but will not have the power to recommend policies.

In other business, Senate President Horace Fleming in his report called attention to the Cabinet's approval of a

progressive discipline policy which will apply to all classified and unclassified employees, excluding faculty. Calling it "potentially insidious," he said he alone voted against the policy on the ground that its long-range consequences for faculty are insufficiently understood.

Admissions and Scholarship Committee chairman Alan Grubb said the committee had asked President Fleming to express to President Atchley and Dean Hurst the committee's displeasure at the postponement of plans to shorten the drop period from eight to six weeks, and at the fact the postponement was approved without consulting the faculty.

Policy Committee chairman Bill West reported on state bill H-2680, which will allow state universities exceptions from current state laws governing employee evaluation and tenure. He said the committee felt the Faculty Senate should support the bill, but that further discussions will be held with Vice President and Legal Counsel Joseph McDevitt.

In a progress report of the ad hoc committee on University research and research funding, Chairman Keith McDowell said a meeting with President Atchley indicated the committee's role will be a significant one. Answering questions from senators, he said the committee might discuss the role of the Research Council and the question of a possible vice president for research. He said the Senate would review the committee's final report.

Senator West said the search committee on the selection of a vice president and provost had completed a job description, received several nominations and solicited more, set Jan. 7 as the deadline for applications and hoped for a recommendation by March.

Other Action and Reports

In other action, the Senate:

--refused to move from the table a resolution recommending changes in commencement exercises.

--passed a resolution expressing displeasure with a cabinet decision to leave surplus group life insurance funds

on deposit and asking it to rescind its order. The resolution would require the University group life committee to call a policyholders' meeting to decide how surplus funds are used.

--passed a resolution to provide financial support for Faculty Senate officers. It would provide 50 percent of the salary and fringe benefits of the president for 12 months, salary and fringe benefits for a part-time secretary or 50 percent of a full-time secretary, and funds for materials, supplies, copying, telephone and travel for Senate officers or representatives. The resolution calls for a study of time demands that Senate business places on the vice president and secretary to determine if reduced teaching loads or work responsibility is needed. The resolution also calls for a study of the need for office space for Senate officers and staff.

--passed a resolution to halt the practice of towing student vehicles from spaces used by persons attending athletic events and to ask that alternative parking arrangements be found for either on-campus students or athletic event visitors.

--passed unanimously a resolution asking that the Faculty Manual be rewritten to define temporary or short-term faculty positions such as "Lecturer," "Research Associates," "Visiting Professor," "Visiting Associate Professor," and so forth.

--passed a resolution asking the administration to develop guidelines for nominations, appointments and communication procedures concerning adjunct faculty appointments and that the Senate advise Dean Victor Hurst that the use of the title "Lecturer" not be used as an "Adjunct Faculty" title.

--defeated a resolution to amend several pages of the Faculty Manual so that any position not qualified by the terms "Adjunct," "Visiting," or "Temporary" would be eligible for tenure consideration.

--accepted the Advisory Committee's recommendations that the Dec. 11 meeting be held at 4:15 p.m. instead of 3:30 p.m. to accommodate the exam schedule and that the Senate meet April 8 instead of April 15 to avoid conflict with inauguration events.

CLEMSON
UNIVERSITY

FACULTY SENATE

December 7, 1979

Memorandum

TO: The Faculty Senate

FROM: H. W. Fleming *HWF*

RE: Cabinet Decision on Surplus Group Life Insurance Funds

On Friday, December 7, President Atchley rescinded the decision of the Cabinet to keep surplus group life insurance funds on interest-earning account with Prudential. He further has instructed the Ad Hoc Group Life Insurance Committee to call a meeting soon of all policy holders at which time a report on the program and past performance will be presented and comments received. Then the Committee will be expected to make another recommendation to the Cabinet on disposition of the current surplus.

President Atchley also recognizes the need for re-charging the Committee, which he will consider doing shortly. I will keep you informed of any developments along these lines and will be happy to pass along any comments you may have.

CLEMSON
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FACULTY SENATE

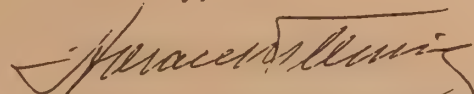
December 11, 1979

To the 1979 Tiger Football Squad:

The Faculty Senate congratulates you and your coaches for the outstanding record you have compiled in competition this fall. We also congratulate you on receiving the bid to compete in the Peach Bowl in Atlanta on December 31.

Best wishes as you look forward to the game with Baylor in the Peach Bowl.

Sincerely,



Horace W. Fleming, President
For the Faculty Senate

HWF/lm



CLEMSON
UNIVERSITY

FACULTY SENATE

December 11, 1979

To the 1979 Tiger Soccer Squad:

The Faculty Senate congratulates you and your coaches for the outstanding record you have compiled in competition this fall. We also congratulate you on being runners-up for the NCAA Division I Championship.

Congratulations on an outstanding season.

Sincerely,

Horace W. Fleming, President
For the Faculty Senate

HWF/lm

Calendar of Campus Events

- 1 -- Tiger Drill Meet: Annual high school ROTC drill competition, sanctioned by the governor of S.C. Sponsored by departments of Aerospace Studies and Military Science, Littlejohn Coliseum, 8 a.m. Open to the public, no admission charge.
- 1-2 -- Baseball: Appalachian State, here, 2 p.m.
- 1 -- Fencing: ACC Championships, Fike Recreation Center, all day.
- 1 -- ACC Finals. Sponsored by University Union, Edgar's. University I.D. and proof of age required, no admission charge. Call 656-2461 for more information.
- 1-27 -- Art Exhibition: "South Carolina Arts Commission Show." An annual juried exhibition of art works by contemporary S. C. artists of all media. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 2 -- Free Flick: "Dollars." Sponsored by University Union, YMCA Theater, 8 p.m. No admission charge with University I.D.
- 3 -- French Film: "Last Year at Marienbad." Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 3-4 -- Baseball: James Madison, here, 3 p.m.
- 3-9 -- Videotape: "Clemson Highlights." Sponsored by University Union, loggia, shown several times daily.
- 3-5 -- Movie: "Ten." Sponsored by University Union, YMCA Theater, 7 and 9 p.m., \$1 admission charge.
- 3-8 -- Art Exhibition: "Robert Coker Photo Display." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 4-6 -- Workshop: "Industrial Electrical Power Systems." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 5 -- English Hour Lecture: "A Short History of Western Typography and Handwriting" by Milton Van Hoy. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 5-6 -- Coffeehouse: "Walter Kraft." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 5-7 -- Conference: "Tenth Annual S. C. State Highway Conference." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 5-6 -- Workshop: "Texturing Technology: Production of New Yarns and Latest Machinery." Sponsored by Professional Development, call 656-2200 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 6-7 -- Workshop: "Estimating and Controlling Manufacturing Costs." Sponsored by Professional Development, call 656-2200 for more information.
- 7-9 -- Baseball: East Tennessee State, here, (7) 3 p.m., (8-9) 2 p.m.
- 7 -- Workshop: "Counseling Adolescents." Sponsored by Continuing Education Department of College of Nursing, call 656-3078 for more information.
- 7-8 -- Edgar's: "Stewart Tussing Band." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 8 -- Horseback Riding. Sponsored by University Union, details and sign up at Union Information Desk.
- 9 -- Eaton-Freeman Piano Competition. Sponsored by Music Department, Daniel Auditorium, 3 p.m. Open to the public, no admission charge.
- 9 -- Free Flick: "Cat Ballou." Sponsored by University Union, 8 p.m. No admission charge with University I.D.
- 10 -- German Play: "The Dead Aunt" by Curt Goetz. Sponsored by Languages Department, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 10-11 -- Baseball: UNC-Wilmington, here, 3 p.m.
- 10-14 -- Videotape: "Billy Joel." Sponsored by University Union, loggia, shown several times daily.
- 11 -- Concert: Won-Mo Kim, violinist, and Despy Karlas, pianist. Sponsored by Music Department Chamber Music Series, Daniel Auditorium, 8 p.m. Open to the public, no admission charge.
- 11-13 -- Workshop: "Microcomputer Hardware Interfacing." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 11 -- Dinner Theatre: Tim Settimi, mime artist. Sponsored by University Union, Edgar's. Open to the public, \$6 admission charge. Call 656-2461 for more information.
- 11-12 -- Workshop: "Carpet Manufacturing Technology." Sponsored by Professional Development, call 656-2200 for more information.
- 12 -- English Hour Lecture: "Introduction to a Non-Indoeuropean" by Morris Cox. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 12-13 -- Baseball: The Citadel, here, 3 p.m.
- 12 -- Brown Bag Special: "Workmanship Myth" and "Hawaii--Our Little Corner." Sponsored by University Union, Edgar's, noon - 1 p.m.
- 12-13 -- Workshop: "Brick Masonry for Design Engineers." Sponsored by Continuing Engineering Education, call 656-3308 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 13-15 -- Conference: "Philological Association of the Carolinas." Presentation of papers dealing with literature and pedagogy in English as well as modern foreign languages. Sponsored by Languages Department, call 656-3393 for more information.
- 13 -- Seminar: Mr. Clifford E. Oman, executive vice president of National Distillers and Chemical Corp., discusses his company's role in the chemical industry. Sponsored by Distinguished Chemical Industry Business Seminar Series, 1:25 p.m. in Earle Hall Auditorium, 4:30 p.m. in 131 Brackett Hall. Open to the public, no admission charge.
- 14 -- Spring holidays begin after last class.
- 14 -- Baseball: Wake Forest, here, 3 p.m.
- 14 -- Workshop: "Death in the ICU-CCU." Sponsored by Continuing Education Department of College of Nursing, call 656-3078 for more information.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

ADDENDUM

to the

Clemson University Newsletter

February 15, 1980

CLEMSON UNIVERSITY LIBRARY
SOUTH CAMPUS DRIVE

FEB 20 1980

Minutes of

The Educational Council

October 29, 1979

and

December 3, 1979

Vol. 1

Clemson University
Clemson, South Carolina

MINUTES

of the meeting of

THE EDUCATIONAL COUNCIL

October 29, 1979

<u>Present:</u> Bill L. Atchley, <u>presiding</u> John L. Allen Robert M. Allen Ben W. Anderson Luther P. Anderson Melvin E. Barnette H. Morris Cox Walter T. Cox Horace W. Fleming, Jr. J. W. Gordon Gourlay Victor Hurst Geraldine Labecki	Harold F. Landrith Harlan E. McClure Joseph B. McDevitt Stanley G. Nicholas Jerome V. Reel A. E. Schwartz B. J. Todd K. N. Vickery Henry E. Vogel Lyle C. Wilcox S. M. Willis E. N. Tyndall, <u>Secretary</u>
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1. Minutes

The minutes of the meeting of September 3, 1979, were approved as submitted.

2. Academic Matters by Colleges:

Statement and Recommendations: The Dean of the University recommended the following:

A. COLLEGE OF FOREST AND RECREATION RESOURCES

(1) New Undergraduate Courses:

RPA	305	Safety in Recreation	3 cr (3,0)
LS	263	Intermediate Racquetball	1 cr (0,3)

(2) Undergraduate Course Change:

FOR	304	Forest Economics (Prerequisite change)	3 cr (3,0)
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(3) New Graduate Course:

RPA	815	Therapeutic Recreation and Activity Therapy Administration	3 cr (3,0)
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(4) Graduate Course Change:

FOR	604	Forest Economics (Prerequisite change)	3 cr (3,0)
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Action: APPROVED

3. Policy Change on 600-Level Courses

Statement and Recommendation: The Dean of the University recommended the following changes to the third paragraph of the Policy on 600 Level Courses by the Educational Council on May 25, 1979:

The Graduate School discourages inclusion of 600-level courses in the minimum hours required for graduate degrees if these courses are clearly equivalents of undergraduate courses required for an undergraduate degree in the same major at Clemson University.

Action: APPROVED

4. Faculty Evaluation by Students

Statement and Recommendation: The Dean of the University recommended approval of the week of November 12, 1979, for faculty evaluation by students.

Action: APPROVED

5. Changes to Study Time Limitation in Ph.D. Programs

Statement and Recommendation: The Dean of the University recommended the following:

A. TIME LIMIT

All requirements for a Doctor of Philosophy degree must be completed within eight calendar years from the date of enrollment in the degree program. If a student possesses a master's degree in the same or in a closely allied area of study, all requirements for the Doctor of Philosophy degree must be completed within six years from the date of enrollment in the degree program. Special limitations, applying to the results of the comprehensive examination, are found in the section describing this examination.

B. COMPREHENSIVE EXAMINATION BEFORE ADMISSION TO CANDIDACY

Satisfactory completion of the comprehensive examination, i.e., a written or a written and oral examination taken after completion of most required course work, must occur no less than six months and no more than five years prior to the date of graduation. The function of the examination is to obtain objective evidence of an adequate intellectual mastery of the areas of the major and minor specializations.

The Chairperson of the advisory committee will inform the Graduate School of the result, via Form GS5, within three weeks following the examination. The student's performance on this examination will determine whether he or she will be recommended for admission to candidacy for the degree.

Should the student fail to pass the comprehensive examination, he or she may be given a second opportunity if so recommended by the advisory committee. A second failure shall result in the student being declared ineligible to receive the Doctor of Philosophy degree at Clemson University.

RESULT OF THE DOCTORAL DEGREE
COMPREHENSIVE EXAMINATION

TO THE DEAN OF THE GRADUATE SCHOOL:

This committee has given _____,
(Name)

the comprehensive examination for the Doctor of Philosophy degree with a major

in _____ and a minor (if applicable) in
(Major)_____ and report the result as follows:
(Minor)Passed ☐ Failed ☐

The examination was given over the dates _____ to _____.

If the result is "Failed," please indicate recommendation relative to a
second comprehensive examination, if any: _____

Examining Committee

Chairperson

Action: APPROVED

E. N. Tyndall

E. N. Tyndall, Secretary

Clemson University
Clemson, South Carolina

MINUTES

of the meeting of

THE EDUCATIONAL COUNCIL

December 3, 1979

<u>Present:</u> Bill L. Atchley, <u>presiding</u>	Harold F. Landrith
John Allen	Harlan E. McClure
Luther P. Anderson	Joseph B. McDevitt
Melvin E. Barnette	Stanley G. Nicholas
Benton H. Box	Jerome V. Reel
H. Morris Cox	A. E. Schwartz
Walter T. Cox	Gloria Tanner
Charles R. Dillon	Wallace D. Trevillian
J. L. Edwards	K. N. Vickery
Horace W. Fleming, Jr.	S. M. Willis
J. W. Gordon Gourlay	E. N. Tyndall, <u>Secretary</u>
Victor Hurst	

1. Minutes

The minutes of the meeting of October 29, 1979, were approved as submitted.

2. Faculty Senate Resolution on Reexamination for a Deficient Grade-Point Ratio.

Statement and Recommendation: The Dean of the University recommended the following:

Whereas, the present policy for allowing reexamination for a deficient grade-point ratio provides some individual students an advantage with respect to their colleagues and

Whereas, the policy is an imposition on the faculty member being required to provide the reexamination,

Be it therefore resolved that the practice of reexamination for deficient grade-point ratio (as described in paragraphs 4 through 6 of page 52 of Clemson University Announcements 1979/1980) be abolished.

Action: TABLED

3. Academic Matters by Colleges:

Statement and Recommendations: The Dean of the University recommended the following:

A. COLLEGE OF AGRICULTURAL SCIENCES

(1) New Undergraduate Courses:

AgM	302	Rainfall, Runoff, and Erosion Control	3 cr (2,3)
AgM	402	Drainage, Irrigation, and Waste Management	3 cr (2,3)
Agron	350	Practicum	1-3 cr (0,var)
DySc	490	Practicum	1-4 cr (0,var)
Ent	490	Practicum	1-4 cr (0,var)
FdSc	491	Practicum	1-4 cr (0,var)
PS	471	Practicum	1-4 cr (0,2-9)
WB	490	Practicum	1-4 cr (0,var)
AnPh	460/H460	Systems Physiology II	4 cr (3,3)

(2) New Graduate Courses:

AgM	602	Drainage, Irrigation, and Waste Management	3 cr (2,3)
AnPh	660	Systems Physiology II	4 cr (3,3)
AnPh	812	Digestive-Metabolic, Excretory & Respiratory Physiology	5 cr (4,3)
AnPh	814	Membrane, Cardiovascular & Neuro-Muscular Physiology	5 cr (4.3)
Nutr	706	Nutrition for Teachers	3 cr (3,0)

(3) Undergraduate Course Changes:

AgEc	403	Land Economics (Prerequisite change)	3 cr (3,0)
AgM	303	Calculations for Mechanized Agriculture (Credit and description change)	3 cr (2,3)
WB	463	Special Problems in Wildlife Biology and Fisheries Sciences (Number change)	1-3 cr (0,3-9)

(Continued . . . COLLEGE OF AGRICULTURAL SCIENCES)

(4) Graduate Course Changes:

AgEc	603	Land Economics (Prerequisite change)	3 cr (3,0)
AnPh	801	Electron Microscopy of Biological Specimens (Title, description, & prerequisite change)	3 cr (1,6)
AnPh	806	Experimental Animal Physiology (Prerequisite change)	3 cr (1,6)
AnPh	808	Mammalian and Avian Endocrinology (Description and prerequisite change)	3 cr (3,0)
Ent	853	Applied Systematics (Title, description, & prerequisite change)	3 cr (2,3)
Nutr	809	Ruminant Nutrition (Title, description & prerequisite change)	3 cr (3,0)

(5) Undergraduate Course Deletions:

AgEc	405	Seminar	1 cr (1,0)
WB	491	Special Problems	1-3 cr (0,3-9)

(6) Graduate Course Deletions:

AgEc	701	Agribusiness Management Principles	3 cr (3,0)
AnPh	802	Digestive and Excretory Physiology	3 cr (2,3)
AnPh	803	Cardiovascular & Respiratory Physiology	4 cr (3,3)
AnPh	804	Muscle and Nerve Physiology	4 cr (3,3)
AnPh	805	Pharmacology	3 cr (2,3)

(7) Curriculum Revision: Effective, Fall 1980

Agricultural Economics and Rural Sociology -
Agricultural Business Major

(ATTACHMENT 1)(8) Curriculum Revision: Effective, Fall 1980

Agricultural Economics and Rural Sociology -
Community and Rural Development Major

(ATTACHMENT 2)

(Continued . . . COLLEGE OF AGRICULTURAL SCIENCES)

(9) Curriculum Revision: Effective, Fall 1980

Agricultural Mechanization and Business

(ATTACHMENT 3)

B. COLLEGE OF ARCHITECTURE

(1) New Undergraduate Courses:

CABS	311	Contract Documents	3 cr (3,0)
CABS	312	Construction Feasibility Studies	3 cr (3,0)
CABS	351	Construction Management I	3 cr (0,9)
CABS	352	Construction Management II	3 cr (0,9)
CABS	411	Construction Equipment	3 cr (3,0)
CABS	412	Foundation and Formwork	3 cr (3,0)
CABS	451	Construction Management III	3 cr (0,9)
CABS	452	Construction Management IV	3 cr (0,9)

(2) New Graduate Courses:

CAPL	823	Social and Planning and Delivery Systems	3 cr
CAPL	858	Preliminary Planning Thesis	3 cr
CAPL	859	Planning Terminal Project	3 cr
CAPL	862	Citizen Participation in Planning	3 cr (3,0)
CAPL	883	Techniques for Analysing Development Impacts	3 cr

(3) Undergraduate Course Department Changes:

CADS	351	Design Studies (Designation change)	5 cr (0,15)
CADS	352	Design Studies (Designation change)	5 cr (0,15)
CADS	451	Design Studies (Designation change)	5 cr (0,15)
CADS	452	Design Studies (Designation change)	5 cr (0,15)

(Continued . . . COLLEGE OF ARCHITECTURE)

(4) Undergraduate Course Delections:

CAAR	351	Design Studies	5 cr (0,15)
CAAR	352	Design Studies	5 cr (0,15)
CAAR	451	Design Studies	5 cr (0,15)
CAAR	452	Design Studies	5 cr (0,15)
CABS	241	Construction Management I	5 cr (3,6)
CABS	242	Construction Management II	5 cr (3,6)
CABS	341	Construction Management III	5 cr (3,6)
CABS	342	Construction Management IV	5 cr (3,6)
CABS	432	Construction Management V	3 cr (3,0)
CABS	441	Construction Management VI	5 cr (3,6)
CABS	442	Construction Managment VII	5 cr (3,6)

(5) Curriculum Revision: Effective, Fall 1980

Bachelor of Science in Building Science and
Management

(ATTACHMENT 4)

C. COLLEGE OF EDUCATION

(1) New Undergraduate Course:

InEd	108	Training Programs in Industry I	3 cr (3.0)
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(2) Undergraduate Course Changes:

AS	109	Air Force Today I (Title & description change)	1 cr (1,1)
AS	110	Air Force Today II (Title and description change)	1 cr (1,1)
AS	209	The Development of Air Power I (Title & description change)	1 cr (1,1)
AS	210	The Development of Air Power II (Title & description change)	1 cr (1,1)

(COLLEGE OF EDUCATION)

(continued Undergraduate Course Changes)

AS	309	Air Force Leadership and Management I (Title, description, & number change)	3 cr (3,1)
AS	310	Air Force Leadership and Management II (Title, description, & number change)	3 cr (3,1)
AS	409	National Security Policy I (Title, description, & number change)	3 cr (3,1)
AS	410	National Security Policy II (Title, description, & number change)	3 cr (3,1)
InEd	317	Management of Industrial Education Labor- atories (Title and number change)	3 cr (2,2)
InEd	408	Training Programs in Industry II (Title change)	3 cr (3,0)
InEd	441	Comprehensive Laboratory in Industrial Education (Credit, title, & description change)	3 cr (1,4)

(3) Undergraduate Course Deletions:

AS	311	Concepts of Air Force Leadership	3 cr (3,1)
AS	312	Concepts of Air Force Management	3 cr (3,1)
AS	411	American Defense Policy	3 cr (3,1)
AS	412	Contemporary National Security Policy	3 cr (3,1)
InEd	416	Management and Operation of Industrial Education Laboratories	3 cr (2.2)

(4) Undergraduate Curriculum Revisions: Effective, Fall 1980

Education for Industry

(ATTACHMENT 5)

Industrial Arts

(ATTACHMENT 6)

Vocational-Technical Education

(ATTACHMENT 7)

D. COLLEGE OF ENGINEERING

(1) New Undergraduate Courses:

CE	432	Construction Project Administration	3 cr (2,3)
CE	433	Construction Planning and Scheduling	3 cr (2,3)
CE	438	Construction Support Operations	3 cr (2,3)
CE	439	Construction Equipment Selection and Maintenance	3 cr (2,3)
CE	463	Coastal Engineering II	3 cr (3,0)
CE	464	Physical Models in Fluid Mechanics	3 cr (2,2)
CE	470	Probabilistic Design in Civil Engineering	3 cr (3,0)
E&CE	454	Physiological Control Systems	3 cr (2,2)
E&CE	472	Microcomputer Systems Applications	3 cr (2,2)
ET	462	Mechanical Systems Design	3 cr (2,3)
ET	491	Technical Project Identification and Specification	1 cr (0,3)
MatE	304	Metallographic Analysis	3 cr (1,6)
MatE	420	Introduction to Mechanical Metallurgy	3 cr (3,0)
MatE	422	Introduction to Chemical Metallurgy	3 cr (3,0)
MatE	424	Introduction to Extractive Metallurgy	3 cr (3,0)
ME	430	Fluid Power - Hydraulics	3 cr (3,0)
ME	493	Selected Topics in Mechanical Engineering	1-6 cr

(2) New Graduate Courses:

BioE	823	Artificial Cardiac Assistance and Replacement	2 cr (2,0)
CE	632	Construction Project Administration	3 cr (2,3)
CE	633	Construction Planning and Scheduling	3 cr (2,3)
CE	638	Construction Support Operations	3 cr (2,3)
CE	639	Construction Equipment Selection and Maintenance	3 cr (2,3)
CE	663	Coastal Engineering II	3 cr (3,0)

(COLLEGE OF ENGINEERING)

(continued . . . New Graduate Courses)

CE	664	Physical Models in Fluid Mechanics	3 cr (2,2)
CE	670	Probabilistic Design in Civil Engineering	3 cr (3,0)
E&CE	654	Physiological Control Systems	3 cr (2,2)
E&CE	672	Microcomputer Systems Applications	3 cr (2,2)
CE	837	Construction Specifications and Contracts	3 cr (2,3)
CE	861	Mechanics of Sediment Transport	3 cr (2,2)
CE	862	Heat Transfer at Water Surfaces	3 cr (3,0)
E&CE	604	Semiconductor Devices	3 cr (3,0)
E&CE	650	Computer System Design Project	2 cr (0,4)
E&CE	846	Digital Processing of Speech Signals	3 cr (3,0)
E&CE	847	Digital Image Processing	3 cr (3,0)
ESE	847	Advanced Topics in Environmental Engineering Chemistry	2 cr (2,0)
MatE	620	Introduction to Mechanical Metallurgy	3 cr (3,0)
MatE	622	Introduction to Chemical Metallurgy	3 cr (3,0)
MatE	624	Introduction to Extractive Metallurgy	3 cr (3,0)
ME	630	Fluid Power - Hydraulics	3 cr (3,0)

(3) Undergraduate Course Changes:

CE	434	Construction Estimating and Project Control (Title and description change)	3 cr (2,3)
CE	462	Coastal Engineering I (Title, description, & prerequisite change)	3 cr (3,0)
E&CE	317	Electrical Systems Analysis II (Title and prerequisite change)	3 cr (3,0)
E&CE	330/H330	Electrical Systems, Analysis I (Title and description change)	3 cr (3,0)
E&CE	412	Digital Computer Systems (Title and description change)	3 cr (3,0)

(COLLEGE OF ENGINEERING)

(continued Undergraduate Course Changes)

E&CE	429	Computer Organization (Description & prerequisite change)	3 cr (3,0)
ESE	470	Water Resources Engineering (Description change)	3 cr (3,0)
ET	211	Electrical Circuits I (Credit, description & prerequisite change)	3 cr (2,3)
ET	241	Statics and Strength of Materials (Credit, description, title, & prerequisite change)	3 cr (3,0)
ET	245	Applied Kinematics and Dynamics (Credit, title, description, & prerequisite change)	4 cr (3,3)
ET	295	Problems in Technology (Credit & prerequisite change)	3 cr (3,0)
ET	323	Electrical Engineering Technology Laboratory (Number & prerequisite change)	1 cr (0,3)
ET	341	Mechanical Engineering Technology Laboratory (Number & prerequisite change)	1 cr (0,3)
ET	321	Elements of Electronics (Credit change)	3 cr (2,3)
ET	351	Applied Thermodynamics I (Description & prerequisite change)	3 cr (3,0)
ET	352	Applied Thermodynamics II (Credit & description change)	3 cr (2,3)
ET	361	Industrial Application of Statistics (Prerequisite change)	3 cr (3,0)
ET	365	Industrial Process Measurement and Control (Title, number & prerequisite change)	3 cr (2,3)
ET	415	Minicomputers and Microcomputers (Number & prerequisite change)	4 cr (3,3)
ET	461	Machine and Component Design (Credit & prerequisite change)	3 cr (2,3)
ET	492	Technical Design Project (Prerequisite change)	1 cr (0,3)
ME	415/H415	Undergraduate Research (Description change)	1-3 cr

(COLLEGE OF ENGINEERING)

(4) Graduate Course Changes:

CE	634	Construction Estimating and Project Control (Title & description change)	3 cr (2,3)
CE	662	Coastal Engineering I (Title, description, & prerequisite change)	3 cr (3,0)
E&CE	612	Digital Computer Systems (Title & description change)	3 cr (3,0)
E&CE	629	Computer Organization (Description & prerequisite change)	3 cr (3,0)
E&CE	812	Digital Control Systems (Title, description & prerequisite change)	3 cr (3,0)
ESE	670	Water Resources Engineering (Description change)	3 cr (3,0)
ESE	701	Special Problems (Credit change)	1-6 cr (1-6,0)
ESE	875	Water Resources Planning (Description change)	3 cr (3,0)
ESE	876	Water Resources Systems (Description change)	3 cr (3,0)

(5) Undergraduate Course Deletions:

ChE	454	Physiological Control Systems	3 cr (3,0)
CE	460	Physical Oceanography	3 cr (3,0)
CE	461	Oceanographical Engineering	3 cr (3,0)
ET	315	Minicomputers and Microcomputers	4 cr (3,3)
ET	431	Electrical Engineering Technology Laboratory	1 cr (0,3)
ET	451	Mechanical Engineering Technology Laboratory	1 cr (0,3)
ET	465	Instrumentation for Process Measurement and Control	3 cr (2,3)
MatE	451	Corrosion of Materials	3 cr (2,3)
ME	416	Undergraduate Research	1-3 cr

(COLLEGE OF ENGINEERING)

(6) Graduate Course Deletions:

CE	660	Physical Oceanography	3 cr (3,0)
CE	661	Oceanographical Engineering	3 cr (3,0)
Mate	651	Corrosion of Materials	3 cr (2,3)

E. COLLEGE OF FOREST AND RECREATION RESOURCES

(1) New Undergraduate Courses:

For	255	Secondary Wood Products	1 cr (Summer Camp)
For	415	Forest Wildlife Habitat Management	3 cr (2,3)
For	430	Composite Wood Materials	3 cr (2,3)
For	433	Merchandising of Forest Products	3 cr (3,0)
For	434	Foreign Woods and Their Properties	2 cr (1,3)
For	435	Park and Forest Structures	2 cr (2,0)
For	436	Wood as an Energy Source	2 cr (2,0)

(2) New Graduate Courses:

For	615	Forest Wildlife Habitat Management	3 cr (2,3)
For	630	Composite Wood Materials	3 cr (2,3)
For	633	Merchandising of Forest Products	3 cr (3,0)
For	634	Foreign Woods and Their Properties	2 cr (1,3)
For	635	Park and Forest Structures	2 cr (2,0)
For	636	Wood as an Energy Source	2 cr (2,0)

(3) Undergraduate Course Changes:

For	221	Wood Properties I (Number & prerequisite change)	3 cr (2,3)
For	222	Wood Properties II (Number & prerequisite change)	3 cr (2,3)
For	325	Wood Chemistry (Number change)	3 cr (2,3)

(COLLEGE OF FOREST AND RECREATION RESOURCES)

(continued . . . Undergraduate Course Changes)

For	327	Wood Processing I (Number & prerequisite change)	3 cr (2,3)
For	328	Wood Processing II (Number & prerequisite change)	3 cr (2,3)
For	401	Harvesting Forest Products I (Credit, title, & description change)	2 cr (1,3)
For	411	Harvesting Forest Products II (Title change)	3 cr (2,3)
For	420	Forest Products (Credit, description, & prerequisite change)	3 cr (2,3)

(4) Graduate Course Changes:

For	601	Harvesting Forest Products I (Credit, title, & description change)	2 cr (1,3)
For	611	Harvesting Forest Products II (Title change)	3 cr (2,3)
For	620	Forest Products (Credit, description, & prerequisite change)	3 cr (2,3)

(5) Undergraduate Course Deletions:

For	421	Wood Properties I	3 cr (2,3)
For	422	Wood Properties II	3 cr (2,3)
For	425	Wood Chemistry	3 cr (2,3)
For	427	Wood Processing I	3 cr (2,3)
For	428	Wood Processing II	3 cr (2,3)

(6) Graduate Course Deletions:

For	621	Wood Properties I	3 cr (2,3)
For	622	Wood Properties II	3 cr (2,3)

(7) Curriculum Revision: Effective, Fall 1980

Forest Management

(COLLEGE OF FOREST AND RECREATION RESOURCES)

(continued . . . Curriculum Revision: Effective, Fall 1980)

Wood Utilization

(ATTACHMENT 9)

F. COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

(1) New Undergraduate Courses:

IM	200	Introduction to Business	3 cr (3,0)
SH	304	Industrial Hygiene Practice	4 cr (3,3)
SH	402	Fire Protection and Prevention	3 cr (3,0)

(2) New Graduate Courses:

Econ	812	History of Economic Thought	3 cr (3,0)
Econ	850	Monetary Theory	3 cr (3,0)
Econ	888	Directed Reading in Economics	1-3 cr (1-3,0)
Text	701	Applied Science Technologies	3 cr (2,4)

(3) Undergraduate Course Changes:

Econ	211/H211	Principles of Economics (Description & number change)	3 cr (3,0)
Econ	212/H212	Principles of Economics (Number change)	3 cr (3,0)
Econ	306	Risk and Insurance (Description change)	3 cr (3,0)
Econ	404	Comparative Economic Systems (Description change)	3 cr (3,0)
Econ	407/H407	National Income & Employment Analysis (Description change)	3 cr (3,0)
Econ	412/H412	International Trade and Finance (Title & description change)	3 cr (3,0)
Econ	420/H420	Public Sector Economics (Description change)	3 cr (3,0)
Econ	421	Urban Economics (Description change)	3 cr (3,0)

(COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE)

(continued . . . Undergraduate Course Changes)

Fin	306/H306	Corporation Finance (Prerequisite change)	3 cr (3,0)
IM	301	Principles of Management (Title and number change)	3 cr (3,0)
SH	303	Introduction to Industrial Hygiene (Title, description, & prerequisite change)	3 cr (3,0)
SH	401	Fundamentals of Fire and Explosion (Title, description, & prerequisite change)	3 cr (3,0)
SH	404	Seminar in Safety and Health (Title, description, & prerequisite change)	3 cr (3,0)

(4) Graduate Course Changes:

Econ	607	National Income and Employment Analysis (Description change)	3 cr (3,0)
Econ	612	International Trade and Finance (Title & description change)	3 cr (3,0)
Econ	620	Public Sector Economics (Description change)	3 cr (3,0)
Econ	621	Urban Economics (Description change)	3 cr (3,0)
Econ	801	Microeconomic Theory (Title & number change)	3 cr (3,0)
Econ	805	Macroeconomic Theory (Title & number change)	3 cr (3,0)
Econ	809	Mathematical Economics (Title & number change)	3 cr (3,0)
Econ	816	Labor Economics (Title & number change)	3 cr (3,0)
Econ	817	Public Employee Labor Relations (Title & number change)	3 cr (3,0)
Econ	820	Public Sector Economics (Title, description, & number change)	3 cr (3,0)
Econ	825	Economics of Environmental Quality (Title & number change)	3 cr (3,0)
Econ	840	International Trade Theory (Number change)	3 cr (3,0)

(Continued COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE)

(5) Undergraduate Course Deletions:

Econ	201/H201	Principles of Economics	3 cr (3,0)
Econ	202/H202	Principles of Economics	3 cr (3,0)
IM	201	Introduction to Industrial Management	3 cr (3,0)

(6) Graduate Course Deletions:

Econ	803	Advanced Economic Concepts & Applications II	3 cr (3,0)
Econ	806	International Trade Theory	3 cr (3,0)
Econ	808	Seminar in Public Employee Labor Relations	3 cr (3,0)
Econ	811	Seminar in Labor Economics	3 cr (3,0)
Econ	813	Seminar in Community Goods and Environmental Quality	3 cr (3,0)
Econ	814	Welfare Economics	3 cr (3,0)
Econ	821	Economic Theory I	3 cr (3,0)
Econ	822	Economic Theory II	3 cr (3,0)

(7) Curriculum Revisions: Effective, Fall 1980

B.S. in Accounting

(ATTACHMENT 10)

B.S. in Financial Management

(ATTACHMENT 11)

B.A. in Economics

(ATTACHMENT 12)

B.S. in Economics

(ATTACHMENT 13)B.S. in Administrative Management - Safety and
Health Concentration(ATTACHMENT 14)

B.S. in Administrative Management

(ATTACHMENT 15)

(COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE)

(Continued . . . Curriculum Revisions: Effective, Fall 1980)

B.S. in Industrial Management

(ATTACHMENT 16)(8) Center for Economic Education within the Department of Economics

Proposal submitted by the College of Industrial Management and Textile Science

G. COLLEGE OF LIBERAL ARTS

(1) New Undergraduate Courses:

FR	310	French for Business and Industry	3 cr (3,0)
FR	499	Selected Topics in French Literature, Language, and Culture	3 cr (3,0)
GER	401	Studies in German Literature I	3 cr (3,0)
GER	402	Studies in German Literature II	3 cr (3,0)
GER	403	Studies in German Literature III	3 cr (3,0)
GER	411	Studies in the German Language I	3 cr (3,0)
GER	412	Studies in the German Language II	3 cr (3,0)
GER	413	Studies in German Culture	3 cr (3,0)
ITAL	101/H101	Elementary Italian	4 cr (3,1)
ITAL	102/H102	Elementary Italian	4 cr (3,1)
ITAL	201/H201	Intermediate Italian	3 cr (3,0)
ITAL	202/H202	Intermediate Italian	3 cr (3,0)
POL SC	406	The American Federal System	3 cr (3,0)
POL SC	477	African Politics	3 cr (3,0)
SPAN	435	Contemporary Hispanic Culture	3 cr (3,0)
SPAN	440	Practical Communication Skills	3 cr (3,0)
SPAN	499	Selected Topics and Themes in Spanish Literature, Language & Culture	3 cr (3,0)

(COLLEGE OF LIBERAL ARTS)

(2) Undergraduate Course Changes:

FR	201/H201	Intermediate French (Description & prerequisite change)	3 cr (3,0)
FR	209	Introduction to French Phonetics (Number change)	3 cr (3,0)
FR	302	Survey of French Literature II (Description change)	3 cr (3,0)
FR	305	Intermediate French Conversation and Composition I (Prerequisite change)	3 cr (3,0)
FR	403	Twentieth Century Prose and Poetry (Title, description, & prerequisite change)	3 cr (3,0)
FR	404	Twentieth Century Drama (Description & prerequisite change)	3 cr (3,0)
FR	406	Nineteenth Century French Literary Movements (Title, description, & prerequisite change)	3 cr (3,0)
FR	408	Seventeenth Century French Literature (Title, description, & prerequisite change)	3 cr (3,0)
FR	498	Independent Study (Description change)	1-3 cr (1-3,0)
GER	201/H201	Intermediate German (Description change)	3 cr (3,0)
GER	202/H202	Intermediate German (Description change)	3 cr (3,0)
GER	251	Scientific German (Description & prerequisite change)	3 cr (3,0)
GER	301	Twentieth Century German Drama (Description & prerequisite change)	3 cr (3,0)
GER	302	Twentieth Century German Prose & Poetry (Description & prerequisite change)	3 cr (3,0)
GER	305	Intermediate German Conversation & Composition (Description and prerequisite change)	3 cr (3,0)
GER	307	German Civilization (Description & prerequisite change)	3 cr (3,0)
POL SC	443	Public Opinion and Propaganda (Prerequisite change)	3 cr (3,0)

(COLLOGE OF LIBERAL ARTS)

(Continued . . . Undergraduate Course Changes)

RUSS	201/H201	Intermediate Russian (Description change)	3 cr (3,0)
RUSS	202/H202	Intermediate Russian (Description change)	3 cr (3,0)
SPAN	201/H201	Intermediate Spanish (Description change)	3 cr (3,0)
SPAN	305	Intermediate Spanish Conversation & Composition I (Prerequisite change)	3 cr (3,0)
SPAN	311	Survey of Spanish-American Literature (Description change)	3 cr (3,0)
SPAN	409	Advanced Grammar and Composition (Title & description change)	3 cr (3,0)
SPAN	498	Independent Study	1-3 cr (1-3,0-3)

(3) Undergraduate Course Deletions:

FR	151	French for Graduate Students	3 cr (3,0)
FR	303	Survey of French Literature III	3 cr (3,0)
FR	308	Contemporary French Culture	3 cr (3,0)
FR	309	Introduction to French Phonetics	3 cr (3,0)
GER	151	German for Graduate Students	3 cr (3,0)
GER	308	Contemporary German Culture	3 cr (3,0)
GER	405	Advanced German Conversation & Composition	3 cr (3,0)
GER	407	Early German Literature	3 cr (3,0)
GER	408	German Classicism	3 cr (3,0)
GER	409	The German Novelle	3 cr (3,0)
GER	410	German Romanticism and Realism	3 cr (3,0)
SPAN	310	Survey of Spanish-American Literature	3 cr (3,0)
SPAN	405	Nineteenth Century Spanish Literature	3 cr (3,0)
SPAN	406	Cervantes and the Golden Age	3 cr (3,0)
SPAN	407	Golden Age Drama and Poetry	3 cr (3,0)

(COLLEGE OF LIBERAL ARTS)

(4) Major Concentration in Modern Languages

MODERN LANGUAGES. A student may elect a major concentration in a single language, a double major in two languages, or a double major combining a language major with a major outside the department. All majors will choose one of these options: Option A, designed to prepare the student to continue education in graduate school or to provide background for other professional language careers, requires the courses specified below plus 6 credits in History at the 300-400 level, selected with the approval of the Head of the Department of Languages. Option B, designed to prepare for teaching in secondary schools, requires the courses specified below plus course work in Education sufficient to meet certification requirements. Option C, designed to prepare for a career in business, requires at least a Cluster Minor concentration in Administration. All language majors must complete the stipulated courses in the basic Bachelor of Arts curriculum.

FRENCH: All options require Fr 205 and 209 plus 24 semester credits in French at the 300-400 level appropriate to the option and approved by the Head of the Department.

GERMAN: All options require 24 semester credits in German at the 300-400 level appropriate to the option and approved by the Head of the Department.

SPANISH: All options require Span 205 and 305 plus 24 semester credits in Spanish at the 300-400 level appropriate to the option and approved by the Head of the Department.

(5) Minor in Computer Science

A minor in Computer Science requires CpSc 110 or 120; 130, 210, 230, and two additional Computer Science courses numbered 300 or higher.

H. COLLEGE OF SCIENCES

(1) New Undergraduate Courses:

BOT	204	Mushrooms and Man	2 cr (1,3)
COMP SC	150	Introductory Fortran Programming	2 cr (2,0)
COMP SC	151	Introductory PL/I Programming	2 cr (2,0)
COMP SC	152	Introductory Pascal Programming	2 cr (2,0)
COMP SC	153	Introductory APL Programming	1 cr (1,0)
COMP SC	154	Introductory SNOBOL Programming	1 cr (1,0)

(COLLEGE OF SCIENCES)

(Continued . . . New Undergraduate Courses)

COMP SC	155	Introductory RPG Programming	1 cr (1,0)
COMP SC	156	Introductory Basic Programming	1 cr (1,0)
COMP SC	250	Advanced FORTRAN Programming	2 cr (2,0)
COMP SC	430	Computer Performance Evaluation	3 cr (3,0)
COMP SC	435	Microprogramming	3 cr (3,0)
COMP SC	251	Advanced PL/I Programming	2 cr (2,0)

(2) New Graduate Courses:

BOT	813	Special Topics in Mycology	2-4 cr (0-2,0-6)
BOT	832	Special Topics in Plant Systematics	1-4 cr (1-3,0-3)
BOT	842	Physiological Plant Ecology	3 cr (3,0)
BOT	843	Physiological Plant Ecology Laboratory	1 cr (0,3)
BOT	845	Special Topics in Plant Ecology	1-4 cr (1-3,0-3)
COMP SC	630	Computer Performance Evaluation	3 cr (3,0)
COMP SC	635	Microprogramming	3 cr (3,0)
MICRO	810	Recombinant DNA and Genetic Engineering in Microbes	4 cr (2,6)

(3) Undergraduate Course Changes:

BOT	411	Introductory Mycology (Credit & prerequisite change)	3 cr (1,6)
BOT	413	Phycology (Credit, description, & prerequisite change)	4 cr (3,3)
BOT	441	Plant Ecology (Credit, description, & prerequisite change)	4 cr (3,3)
BOT	446	Biological Oceanology (Credit, description, & prerequisite change)	3 cr (3,0)
COMP SC	110	Elementary Computer Programming (Replaces CompSc 205)(Description & number change)	3 cr (3,0)
COMP SC	120	Introduction to Information Processing Systems (Number change)	3 cr (3,0)

(COLLEGE OF SCIENCES)

(Continued . . . Undergraduate Course Changes)

COMP SC	130	Data Processing with COBOL (Replaces CompSc 308)(Prerequisite, title, description, & number change)	3 cr (3,0)
COMP SC	210	Programming Methodology (Prerequisite, title, & number change)	3 cr (3,0)
COMP SC	230	Assembly Language Programming (Replaces CompSc 321)(Prerequisite & number change)	3 cr (3,0)
COMP SC	340	Introduction to Data Structures (Prerequisite & number change)	3 cr (3,0)
COMP SC	360	Peripherals and File Design (Prerequisite & number change)	3 cr (3,0)
COMP SC	428	Design and Implementation of Programming Languages (Prerequisite, title, & description change)	3 cr (3,0)
COMP SC	462	Teleprocessing & Database Management Systems (Prerequisite change)	3 cr (3,0)
MATH	207	Multivariable Calculus (Prerequisite change)	3 cr (3,0)
MATH	301/H301	Statistical Theory & Methods I (Prerequisite change)	3 cr (3,0)
MATH	411/H411	Linear Algebra (Prerequisite change)	3 cr (3,0)
PHY SC	101	Physical Science I - Physics (Title & description change)	4 cr (3,2)
PHY SC	102	Physical Science II - Chemistry (Title & description change)	4 cr (3,2)
PHYS	207	General Physics I (Prerequisite & description change)	4 cr (3,2)
PHYS	208	General Physics II (Description change)	4 cr (3,2)
PHYS	224	Physics Laboratory II (Description change)	1 cr (0,3)
ZOOL	420/H420	Principles of Evolution (Prerequisite change)	3 cr (3,0)
ZOOL	222	Human Anatomy (Title, description, & number change)	4 cr (3,3)
ZOOL	223	Human Physiology (Title, description, & number change)	4 cr (3,3)

(Continued . . . COLLEGE OF SCIENCES)

(4) Graduate Course Changes:

BOT	611	Introductory Mycology (Credit & prerequisite change)	3 cr (1,6)
BOT	613	Phycology (Credit, description, & prerequisite change)	4 cr (3,3)
BOT	641	Plant Ecology (Credit, description, & prerequisite change)	4 cr (3,3)
BOT	646	Biological Oceanology (Credit, description & prerequisite change)	3 cr (3,0)
BOT	815	Phycology Colloquium (Credit change)	1-3 cr (1-3,0)
COMP SC	628	Design and Implementation of Programming Languages (Prerequisite, title, & description change)	3 cr (3,0)
COMP SC	662	Teleprocessing and Database Management Systems (Prerequisite change)	3 cr (3,0)
MATH	601	Statistical Theory and Methods I (Prerequisite change)	3 cr (3,0)
MATH	611	Linear Algebra (Prerequisite change)	3 cr (3,0)
ZOOL	620	Principles of Evolution (Prerequisite change)	3 cr (3,0)

(5) Undergraduate Course Deletions:

COMP SC	205	Elementary Computer Programming	3 cr (3,0)
COMP SC	206	Advanced Programming in FORTRAN	3 cr (3,0)
COMP SC	207	Advanced Programming in PL/1	3 cr (3,0)
COMP SC	220	Introduction to Information Processing Systems	3 cr (3,0)
COMP SC	308	Data Processing for Business Applications	3 cr (3,0)
COMP SC	315	Fundamentals of Programming	3 cr (3,0)
COMP SC	321	Assembly Language Programming	3 cr (3,0)
COMP SC	440	Introduction to Data Structures	3 cr (3,0)
COMP SC	460	Peripherals and File Design	3 cr (3,0)

(COLLEGE OF SCIENCES)

(Continued . . . Undergraduate Course Changes)

ZOOL	220	Human Anatomy and Physiology I	4 cr (3,3)
ZOOL	221	Human Anatomy and Physiology II	4 cr (3,3)

(6) Graduate Course Deletions:

BOT	811	Advanced Mycology I	4 cr (3,3)
BOT	812	Advanced Mycology II	4 cr (3,3)
COMP SC	640	Introduction to Data Structures	3 cr (3,0)
COMP SC	660	Peripherals and File Design	3 cr (3,0)

(7) Culliculum Revisions: Effective, Fall 1980

Medical Technology

(ATTACHMENT 17)

Prephysical Therapy

(ATTACHMENT 18)

B.S. - Mathematical Sciences

(ATTACHMENT 19)

Mathematical Sciences - Biology Option

(ATTACHMENT 20)

Mathematical Sciences - Computer Science Option

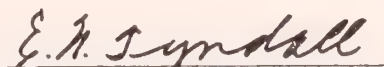
(ATTACHMENT 21)

(8) Curriculum Narrative Revision: Effective, Fall 1980

Bachelor of Arts

(ATTACHMENT 22)

Action: APPROVED


E. N. Tyndall, Secretary

-- ATTACHMENT 1 --

Effective: Fall 1980

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

AGRICULTURAL BUSINESS MAJORFRESHMANFirst Semester

AGRIC 103	Intro. to Animal Ind.	3 (2,3)
ENGL 101	Engl. Composition	3 (3,0)
MATH OPTION ²		3-4
Phys. Biol. Sci. Rqmt. ¹		7
		<u>16-17</u>

Second Semester

AGRIC 104	Intro. to Plant Sci.	3 (2,3)
ENGL 102	Engl. Composition	3 (3,0)
MATH OPTION ²		3
Phys. Biol. Sci. Rqmt. ¹		7
		<u>16</u>

SOPHOMORE

ACCT 201	Prin. of Acct.	3 (3,0)
ECON 211	Prin. of Econ.	3 (3,0)
Literature Rqmt. ³		3
MATH OPTION ²		3
Phys. Biol. Sci. Rqmt. ¹		3
Social Sci. Elective ⁵		3
		<u>18</u>

ACCT. 202	Prin. of Acct.	3 (3,0)
AgEc 202	Agric. Econ.	3 (3,0)
English Rqmt. ⁴		6
MATH OPTION ²		3
ELECTIVE		3
		<u>18</u>

JUNIOR

AgEc 308	Quantitative Ag. Econ.	3 (3,0)
ECON 314	Inter. Econ. Theory	3 (3,0)
RS 301	Rural Sociology	3 (3,0)
Ag. Econ. Rqmt. ⁶		6
Elective		3
		<u>18</u>

Advanced Econ. Rqmt. ⁷	3
Ag. Econ. Rqmt. ⁶	6
Ag. Elective ¹⁰	3
Elective	5
	<u>17</u>

SENIOR

ExSt 462	Stat. Applied to Econ.	3 (3,0)
Ag. Econ. Rqmt. ⁸		6
Ag. Elective ¹⁰		3
RS Elective ⁹		3
		<u>15</u>

AgEc 406	Seminar	1 (1,0)
Ag. Econ. Rqmt. ⁸		6
Ag. Elective ¹⁰		3
Elective		5-6
		<u>15-16</u>

TOTAL SEMESTER HOURS = 134

1/ Seventeen (17) hours of physical and biological sciences are required with at least six (6) hours to be chosen from physical sciences and at least six (6) hours to be chosen from biological sciences. Physical sciences are defined as physics, astronomy, chemistry, and geology. Biological sciences are defined as botany, zoology, biology, biochemistry, microbiology, and genetics.

(Continued . . . ATTACHMENT 1)

Agricultural Economics and Rural Sociology2/ Math Options:

<u>Option A</u>			<u>Option B</u>		
Math	101	3 cr	Math	106	4 cr
Math	102	3 cr	Math	210	3 cr
Math	203 <u>or</u>		Math	301	3 cr
Ex Stat	301	3 cr	CompSc	110 <u>or</u> 120	3 cr
CompSc	110 <u>or</u> 120	3 cr			
		<u>12 cr</u>			<u>13 cr</u>

- 3/ To be selected from: Engl 202, 203, 204, 205, 206, 207, 208, or 209
- 4/ To be selected from: Engl 231, 301, or 304.
- 5/ To be selected from: Hist 101, Hist 102, Geog 101, 301, 302, Soc 201, Soc 204, Hist 306, Hist 308, Psych 201, Pol Sci 101, Pol Sci 302.
- 6/ Twelve hours selected from: Ag Ec 302, Ag Ec 309, Ag Ec 319, Ag Ec 351, Ag Ec 352, Ag Ec 460.
- 7/ To be selected from: Econ 302, Econ 407, or Econ 412.
- 8/ Twelve hours selected from: Ag Ec 402, Ag Ec 403 or 413, Ag Ec 409, Ag Ec 452, and Ag Ec 456.
- 9/ To be selected from: RS 359, RS 401, and RS 471.
- 10/ Courses in the College of Agricultural Sciences outside of the Department of Agricultural Economics and Rural Sociology.



FEB 20 1980

ADDENDUM
to the
Clemson University Newsletter
February 15, 1980

Minutes of
The Educational Council
December 3, 1979
Vol. 2

-- ATTACHMENT 2 --

Effective: Fall 1980

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Community and Rural Development MajorFRESHMANFirst Semester

AGRIC 103	Intro. to Animal Ind.	3 (2,3)	
ENGL 101	Engl. Composition	3 (3,0)	
Math Option ^{2/}		3-4	
Phys. Biol. Sci.	Rqmt. ^{1/}	8	
		<u>17-18</u>	

Second Semester

AGRIC 104	Intro. to Plant Sci.	3 (2,3)	
ENGL 102	Engl. Composition	3 (3,0)	
Math Option ^{2/}		3	
Phys. Biol. Sci.	Rqmt. ^{1/}	8	
		<u>17</u>	

SOPHOMORE

ACCT 200	Basic Acct.	3 (3,0)	
ECON 211	Prin. of Econ.	3 (3,0)	
HIST 102	Hist. of U.S.	3 (3,0)	
Literature	Rqmt. ^{3/}	3	
Math Option ^{2/}		3	
Elective		3	
		<u>18</u>	

AgEc 202	Agric. Econ.	3 (3,0)	
Earth Sci.	Rqmt. ^{5/}	2-3	
Engl	Rqmt. ^{6/}	6	
Math Option ^{2/}		3	
Soc. Sci.	Rqmt. ^{4/}	3	
		<u>17-18</u>	

JUNIOR

AgEc 352	Public Finance	3 (3,0)	
CRD 357	Natural Res. Econ.	3 (3,0)	
ECON 314	Inter. Econ. Theory	3 (3,0)	
RS 301	Rural Sociology	3 (3,0)	
Minor ^{11/}		3	
Elective		3	
		<u>18</u>	

RS 359	The Community	3 (3,0)	
Adv. Econ. Elective ^{7/}		3	
Planning Elective ^{8/}		3	
Minor ^{11/}		6	
		<u>15</u>	

SENIOR

ExSta 462	Stat. Applied to Econ	3 (3,0)	
CRD 411	Regional Impac Anal.	3 (3,0)	
Adv. RS Elec. ^{9/}		3	
Adv. Soc. Sci. Elec. ^{10/}		3	
Planning Elective ^{8/}		3	
		<u>15</u>	

CRD 412	Regional Econ Dev. Pol.	3 (3,0)	
Adv. Soc. Sci. Elec. ^{10/}		3	
Minor ^{11/}		6	
Elective		4	
		<u>16</u>	

TOTAL SEMESTER HOURS = 134

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 2)

(AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY)

1/ Sixteen (16) hours of physical and biological sciences are required with at least six (6) hours to be chosen from physical sciences and at least six (6) from biological sciences. Physical sciences are defined as physics, astronomy, chemistry, and geology. Biological sciences are defined as botany, zoology, biology, biochemistry, microbiology, and genetics.

2/ Math Options:

<u>OPTION A</u>			<u>OPTION B</u>		
Math	101	3 cr	Math	106	4 cr
Math	102	3 cr	Math	210	3 cr
Math	203 <u>or</u>		Math	301	3 cr
Ex. Stat.	301	3 cr	Comp Sc	110 or 120	3 cr
Comp SC	110 or 120	<u>3 cr</u>			
		12 cr			<u>12 cr</u>

3/ To be selected from: Engl 202, 203, 204, 205, 206, 207, 208, or 209.

4/ To be selected from: Hist 306, Hist 308, Geog 301, Soc 204, Psych 201, Pol Sci 101, or Pol Sci 302.

5/ To be selected from: Agron 202, Agron 404, Geog 101, Geol 400, or Ag M 301.

6/ To be selected from: Engl 231, 301, or 304.

7/ To be selected from: Econ 302, 407, 420, 421, 422, or IM 406.

8/ To be selected from: CAPL 411, 472, or 473.

9/ To be selected from: RS 401, or 471.

10/ To be selected from: Soc 206, 208, 324, 421, 431, 441, Geog 302, Pol Sci 321, 423, 425, or 427.

11/ See advisor for available minors and course requirements.

AGRICULTURAL MECHANIZATION AND BUSINESS

FRESHMANFirst Semester

BIOL	103	General Biology I	3 (3,0)
BIOL	105	General Biol. Lab. I	1 (0,3)
CH	101	General Chemistry	4 (3,3)
ENGL	101	Engl. Composition	3 (3,0)
MATH	105	Algebra & Trig. ^{1/}	5 (5,0)

 16
Second Semester

AGRIC	103	Intro. to Animal Ind	3 (2,3)
AGRIC	104	Intro. to Plant Sc.	3 (2,3)
BIOL	104	General Biology II	3 (3,0)
BIOL	106	General Biol. Lab. II	1 (0,3)
CH	102 or 112	General Chemistry	4 (3,3)
ENGL	102	Engl. Composition	3 (3,0)

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SOPHOMORE

AgEc	202	Agric. Economics	3 (3,0)
AGM	205	Prin. of Farm Shop	3 (2,3)
EG	109	Engr. Graphics	2 (1,3)
English Elective ^{2/}			3
PHYS	207	General Phys. I	4 (3,2)
Social Science Elective ^{3/}			3

 18

ACCT	201	Prin. of Accounting	3 (3,0)
AGM	206	Agric. Mechanization	3 (2,3)
AGM	303	Calc. for Mech. Agric.	3 (2,3)
English Elective ^{2/}			3
PHYS	208	General Phys. II	4 (3,2)

 16
JUNIOR

AgEc	351	Adver. & Merchand.	3 (3,0)
or AgEc	352	Public Finance	3 (3,0)
AGM	302	Rainfall Runoff & Ero.	3 (2,3)
AGM	406	Mech. & Hydr. Systems	3 (2,3)
AGRON	202	Soils	3 (2,2)
Social Science Elective ^{3/}			3
Elective			3

 18

AgEc	302	Mgt. of Agric. Enterp	3 (2,3)
AgEc	309	Econ. of Agric. Mkt.	3 (3,0)
ENGL	301	Public Speaking	3 (3,0)
Agriculture Elective ^{4/}			3
Economics Elective ^{4/}			3
Elective			3

 18
SENIOR

AgEc	319	Agribusiness Mgt.	3 (3,0)
or AG EC	409	Agribus. Organi.	3 (3,0)
AGM	402	Dr., Irr., & Waste Mgt.	3 (2,3)
AGM	452	Farm Power	3 (2,3)
AGM	460	Farm & Home Utilities	3 (2,3)
Economics Elective ^{4/}			3

 15

AGM	404	Farm Structures	3 (2,3)
AGM	408	Equip. Sales & Serv.	3 (3,0)
AGM	472	Seminar	1 (1,0)
Agriculture Elective ^{4/}			3
Elective			6

 16

TOTAL SEMESTER HOURS = 134

(Continued . . . ATTACHMENT 3)

Agricultural Mechanization and Business

1/ Eligible students may enroll in Math 106 in lieu of Math 105

2/ To be selected from English as follows:

First Semester - 202, 203, 204, 205, 206, 207, 208, or 209

Second Semester - 231 or 304

3/ To be selected from Ed. 302; Hist. 101, 102, 172, 173; Phil. 201, 325;
Pol. Sci. 101; Psych. 201; RS 301, 401; Soc. 201; Geog 101, 301, 302

4/ See class adviser

B.S. IN BUILDING SCIENCE & MANAGEMENT

FRESHMANFirst Semester

CA DS	151	Design Studies	4 (2-6)
CA AH	115	Hist. of Art & Arch I	3 (3-0)
ENGL	101	English Comp	3 (3-0)
MATH	106	Calculus	4 (4-0)
PHYS	115	Classical Physics	<u>3 (3-0)</u>
			17

Second Semester

CA DS	152	Design Studies	4 (2-6)
CA AH	116	Hist of Art & Arch II	3 (3-0)
ENGL	102	English Comp	3 (3-0)
MATH	301	Stat. Theo & Meth I	3 (3-0)
PHYS	116	Classical Physics	<u>3 (3-0)</u>
			16

SOPHOMORE

CA DS	251	Design Studies	5 (0-15)
CA AH	215	Hist of Art & Arch III	3 (3-0)
CA BS	201	Building Science	3 (2-3)
Visual Arts	(1)		3 (1-6)
ECON	200	Economic Concepts	<u>3 (3-0)</u>
			17

CA DS	252	Design Studies	5 (0-15)
CA AH	216	Hist of Art & Arch IV	3 (3-0)
CA BS	202	Building Science	3 (2-3)
Visual Arts	(1)		3 (1-6)
ACCT	200	Basic Accounting	<u>3 (3-0)</u>
			17

JUNIOR

CA BS	311	Contract Documents	3 (3-0)
CA BS	351	Construction Mgmt I	3 (0-9)
Major Studies			6
English Requirement (2)			3 (3-0)
Elective			<u>3</u>
			18

CA BS	312	Const Feasibility Studies	3 (3-0)
CA BS	352	Construction Mgmt II	3 (0-9)
Major Studies			6
English Requirement (2)			3 (3-0)
Elective			<u>3</u>
			18

SENIOR

CA BS	411	Const Equipment	3 (3-0)
CA BS	451	Const Mgmt III	3 (0-9)
Major Studies			9
Elective			<u>3</u>
			18

CA BS	412	Foun & Formwork	3 (3-0)
CA BS	452	Const Mgmt IV	3 (0-9)
Major Studies			6
Elective			<u>3</u>
			15

(1) CA VA 205, 207, 209, 211, 213, 215, 217

(2) ENGL 202, 203, 204, 205, 206, 207, 208, 209, 301

MAJOR STUDIES:	CA BS	303	Bldg. Science	3	COMP SC	110	Comp Program	3
	CA BS	304	Bldg. Science	3	ECON	305	Investment Anal.	3
	CA BS	404	Bldg. Science	3	LAW	312	Commercial Law	3
	CE	201	Surveying	3	Major Elective			<u>6</u>
								27

TOTAL SEMESTER HOURS = 136

-- ATTACHMENT 5 --

Effective: Fall 1980

EDUCATION FOR INDUSTRY

FRESHMANFirst SemesterSecond Semester

INED 101	Intro. to InEd	1 (1,0)	ENGL 102	Engl Comp	3 (3,0)
INED 106	Drafting InEd I	2 (0,6)	1 INED 108	Training Prog I	3 (3,0)
ENGL 101	Engl Comp	3 (3,0)	2 SCIENCE	ELECTIVE	4 (3,3)
MATH 104	Trigonometry	2 (2,0)	TECH SPEC		4
1 SCIENCE	ELECTIVE	4 (3,3)	ELECTIVE		2
2 TECH SPEC		3			
ELECTIVE		1			
		<u>16</u>			<u>16</u>

SOPHOMORE

3 LIT	REQUIREMENT	3 (3,0)	ECON 211	Principles of Ec	3 (3,0)
SOC 201	Soc Perspective	3 (3,0)	PSYCH 201	General Psychology	3 (3,0)
1 SCIENCE	ELECTIVE	4	2 TECH SPEC		6
2 TECH SPEC		6	ELECTIVE		1
ELECTIVE		1	4 ELECTIVE	Approved Elective	3
		<u>17</u>			<u>16</u>

JUNIOR

INED 325	Ind Org & People	3 (3,0)	ENGL 301	Public Speaking	3 (3,0)
ECON 301	Economics of Labor	3 (3,0)	PSYCH 301	Industrial Psych	3 (3,0)
IM 301	Principles of Mangt	3 (3,0)	2 IM 307	Personnel Mgt	3 (3,0)
4 TECH SPEC		3	TECH SPEC		3
ELECTIVE	Approved Elective	3	4 ELECTIVE	Approved Elective	3
TEXT 460	Textile Processes	3 (3,0)	ELECTIVE		2
		<u>18</u>			<u>17</u>

SENIOR

INED 405	Course Org & Eval	3 (3,0)	INED 408	Training Prog II	3 (3,0)
INED 422	Hist & Phil of InEd	3 (3,0)	4 INED 496	Public Relations	3 (3,0)
SOC 351	Industrial Soc	3 (3,0)	ELECTIVE	Approved Elective	6
2 TECH SPEC		2	ELECTIVE		6
4 ELECTIVE	Approved Elective	3			
ELECTIVE		3			
		<u>17</u>			<u>18</u>

TOTAL SEMESTER HOURS = 135

Technical Specialty 27 hours, Approved Electives 18 hours, Electives 16 hours.

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 5)

EDUCATION FOR INDUSTRY

- ¹Science Electives to be approved by advisor. At least two fields must be represented.
- ²Technical Specialty courses to be approved by advisor.
- ³To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.
- ⁴Approved electives to be approved by advisor.

Note: One summer (400 clockhours) of field experience is required of each student following the sophomore year.

-- ATTACHMENT 6 --

Effective: Fall 1980

INDUSTRIAL ARTS

FRESHMAN

<u>First Semester</u>			<u>Second Semester</u>		
INED 101	Intro. to InEd	1 (1,0)	INED 103	Woodworking II	2 (1,3)
INED 102	Woodworking	2 (1,3)	INED 105	Machining Prac	3 (1,6)
ED 100	Orientation	1 (1,0)	INED 107	Drafting InEd II	2 (0,6)
INED 106	Drafting InEd I	2 (0,6)	ENGL 102	Engl Comp	3 (3,0)
ENGL 101	Engl Comp	3 (3,0)	¹ SCIENCE	ELECTIVE	4 (3,3)
MATH 104	Trigonometry	2 (2,0)	⁴ ELECTIVE		2
¹ SCIENCE	ELECTIVE	4 (3,3)			
⁴ ELECTIVE		<u>1</u>			<u>16</u>
		16			

SOPHOMORE

INED 203	Basic Metal Proc	3 (1,6)	INED 204	Graphic Arts	3 (1,6)
³ INED 205	Power Technology	3 (2,2)	INED 208	Electricity	3 (2,3)
LIT	REQUIREMENT	3 (3,0)	INED 313	Arts & Crafts	3 (1,6)
¹ SCIENCE	ELECTIVE	4 (3,3)	MUSIC 210	Music Appreciation	3 (3,0)
² SOC SCI	ELECTIVE	3 (3,0)	² SOC SCI	ELECTIVE	3 (3,0)
⁴ ELECTIVE		<u>1</u>	⁴ ELECTIVE		<u>2</u>
		17			17

JUNIOR

INED 302	Dwell Mat & Const	2 (1,2)	INED 317	Management of InEd	3 (2,2)
INED 414	Electron for Teachers	3 (1,6)		Labs	
² ED 302	Ed Psychology	3 (3,0)	ED 458	Health Educ	3 (3,0)
SOC SCI	ELECTIVE	3 (3,0)	ENGL 301	Public Speaking	3 (3,0)
⁴ TEXT 460	Textile Processes	3 (3,0)	² SOC SCI	ELECTIVE	3 (3,0)
ELECTIVE		<u>5</u>	⁴ ELECTIVE		<u>6</u>
		19			18

SENIOR

INED 422	Hist & Phil In Ed	3 (3,0)	INED 405	Course Org & Eval	3 (3,0)
INED 441	Comp Lab In Ed	3 (1,4)	INED 425	Teaching Ind Subj	3 (3,0)
ED 498	Sec Content Reading	3 (1,4)	INED 402	Directed Teaching	6 (0,18)
⁴ CAAH 303	Evol of Vis Arts I	3 (3,0)	ED 335	Adol Grow & Dev	3 (3,0)
ELECTIVE		<u>5</u>			<u>15</u>
		17			

TOTAL SEMESTER HOURS = 135

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 6)

INDUSTRIAL ARTS

- ¹ Science Electives to be selected from Astronomy, Chemistry, Physics, Geology, Biology, or Physical Science. At least two fields must be represented, one of which must be in the biological sciences.
- ² Social Science electives to be selected from History, Sociology, Economics, Geography, Psychology, Political Science, Religion, or Philosophy. At least two fields must be represented, with six, but not more than six, hours in one field.
- ³ To be selected from the following: ENG 202, 203, 204, 205, 206, 207, 208, 209.
- ⁴ See Class Advisor for electives.

-- ATTACHMENT 7 --

Effective: Fall 1980

VOCATIONAL-TECHNICAL EDUCATION

FRESHMEN

<u>First Semester</u>			<u>Second Semester</u>		
INED 101	Intro to InEd	1 (1,0)	INED 105	Machining Prac	3 (1,6)
INED 102	Woodworking I	2 (1,3)	INED 107	Drafting InEd II	2 (0,6)
ED 100	Orientation	1 (1,0)	1 ENGL 102	Engl Comp	3 (3,0)
INED 106	Drafting InEd I	2 (0,6)	1 SCIENCE	ELECTIVE	4 (3,3)
ENGL 101	Engl Comp	3 (3,0)	2 SOC SCI	ELECTIVE	3 (3,0)
1 MATH 104	Trigonometry	2 (2,0)	4 ELECTIVE		1
1 SCIENCE	ELECTIVE	4 (3,0)			
4 ELECTIVE		1			
		<u>16</u>			<u>16</u>

SOPHOMORE

INED 203	Basic Metal Proc	3 (1,6)	INED 204	Graphic Arts	3 (1,6)
INED 205	Power Technology	3 (2,2)	INED 208	Electricity	3 (2,3)
3 LIT	REQUIREMENT	3 (3,0)	ENGL 301	Public Speaking	3 (3,0)
1 SCIENCE	ELECTIVE	4 (3,3)	4 MUSIC 210	Music Appreciation	3 (3,0)
2 SOC SCI	ELECTIVE	3 (3,0)	4 ELECTIVE		2
4 ELECTIVE		1			
		<u>17</u>			<u>14</u>

SUMMER

INED 350 Ind Cooperative Experience - 6 (0,18)

JUNIOR

INED 302	Dwell Mat & Const	2 (1,2)	INED 317	Management of	3 (2,2)
ED 302	Ed Psychology	3 (3,0)		In Ed Labs	
2 SOC SCI	ELECTIVE	3 (3,0)	ED 458	Health Education	3 (3,0)
4 ELECTIVE		4 (4,0)	2 SOC SCI	ELECTIVE	3 (3,0)
ELECTIVE	Area of Spec	3 (3,0)	4 ELECTIVE	Area of Spec	3 (3,0)
		1	4 ELECTIVE		3
		<u>15</u>			<u>15</u>

SUMMER

INED 450 Ind Cooperative Experience - 6 (0,18)

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 7)

VOCATIONAL-TECHNICAL EDUCATION

<u>SENIOR</u>							
INED	422	Hist & Phil of InEd	3 (3,0)	INED	405	Course Org/Eval	3 (3,0)
INED	441	Comp Lab InEd	3 (1,4)	INED	425	Teaching Ind Sub	3 (3,0)
ED	498	Sec. Content Read.	3 (1,4)	INED	402	Directed Teaching	6 (0,18)
CAAH	303	Evol of Vis Arts I	3 (3,0)	ED	335	Adol Grow & Dev	3 (3,0)
ELECTIVE		Area of Spec	<u>3 (3,0)</u>				<u>15</u>
			15				15

TOTAL SEMESTER HOURS = 135

¹ Science Electives to be selected from Astronomy, Chemistry, Physics, Geology, Biology or Physical Science. At least two fields must be represented, one of which must be in the biological sciences.

² Social Science Electives to be selected from History, Sociology, Economics, Geography, Psychology, Political Science, Religion, or Philosophy. At least two fields must be represented, with six, but not more than six, hours in one field.

³ To be selected from the following: ENG 202, 203, 204, 205, 206, 207, 208, 209.

⁴ See class advisor for electives.

-- ATTACHMENT 8 --

Effective: Fall 1980

FOREST MANAGEMENT

FRESHMANFirst Semester

*BIOL 103	General Biology I	3 (3,0)
*BIOL 105	General Biology Lab	1 (0,3)
*CH 101	General Chemistry	4 (3,3)
ENGL 101	English Composition	3 (3,0)
FOR 101	Intro to Forestry	1 (1,0)
MATH 106	Cal of One Var I	4 (4,0)
ELECTIVE		<u>1</u>
		17

Second Semester

BIOL 104	General Biology II	3 (3,0)
*CH 102	General Chemistry	4 (3,3)
*EG 105	Engineering Drawing	2
ENGL 102	English Composition	3 (3,0)
FOR 102	Intro to Forestry	1 (1,0)
MATH 108	Cal of One Var II	4 (4,0)
ELECTIVE		<u>1</u>
		18

SOPHOMORE

*AGRON 202	Soils	3 (2,2)
ECON 211	Principles of Econ	3 (3,0)
*FOR 205	Dendrology	4 (3,3)
(*)Literature	Requirement	3 (3,0)
PHYS 207	General Physics	4 (3,2)
ELECTIVE		<u>1</u>
		18

*CE 201	Surveying	3 (2,3)
COMPSC 110	Elem. Comp. Prog.	3 (3,0)
ENGL 301	Public Speaking	3 (3,0)
*FOR 206	Silvics	4 (3,3)
GEOL 219	Geology for Foresters	3 (3,0)
ELECTIVE		<u>1</u>
		17

FORESTRY SUMMER CAMP

FOR 251	Forest Plants	2 cr
FOR 252	Forest Engineering	2 cr
FOR 253	Forest Mensuration	4 cr
FOR 254	Forest Products	<u>1 cr</u>
		9

JUNIOR

FOR 301	Forest Entomoloty	3 (2,3)
EX ST 301	Introductory Statis.	3 (2,2)
**FOR 308	Aerial Photos in For	3 (2,3)
FOR 415	For Wildlife Hab Mgt.	3 (2,3)
Social Science Elective		3
Emphasis Area		<u>3</u>
		18

BOT 421	Plant Physiology	4 (3,3)
**FOR 302	Forest Mensuration	3 (2,3)
FOR 304	Forest Economics	3 (3,0)
FOR 306	Wood & Wood Fiber	
	Identification	2 (1,3)
**FOR 310	Silviculture	<u>4 (3,3)</u>
		16

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 8)

FOREST MANAGEMENT

				<u>SENIOR</u>					
FOR	417	Forest Mgt. & Reg.	4	(3,3)	FOR	401	Harves. For. Prod. I 2	(1,3)	
FOR	420	Forest Products	3	(2,3)	FOR	412	Forest Protection	2 (2,0)	
FOR	407	Forest Pathology	3	(2,3)	FOR	414	Management Plans	1 (0,3)	
PolSC	101	Amer. Natl. Govt.	3	(3,0)	FOR	416	Forest Policy & Adm.	2 (2,0)	
Emphasis Area			6		FOR	418	Forest Valuation	3 (3,0)	
				<u>19</u>	APPROVED ELECTIVES				<u>6</u>
									<u>16</u>

TOTAL SEMESTER HOURS = 148

*Courses prerequisite to enrollment for Summer Camp.

(*)To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.

**Summer Camp prerequisite to these courses.

The emphasis areas are Forest Management, Forest Economics and Marketing, Forest Biology, Forest Wildlife Management, Forest Recreation, Forest Harvesting, Forest Influences, Forest Protection, Forest Biometrics, Forest Soils, Humanities, and Wood Utilization. The student selects one of these and in consultation with his adviser schedules approved courses for that particular emphasis area.

-- ATTACHMENT 9 --

Effective: Fall 1980

WOOD UTILIZATION

FRESHMANFirst Semester

BIOL 103	Biology I	3 (3,0)
BIOL 105	General Biology Lab	1 (0,3)
CH 101	General Chemistry	4 (3,3)
ENGL 101	English Composition	3 (3,0)
FOR 101	Intro to Forestry	1 (1,0)
MATH 106	Cal of One Var I	4 (4,0)
ELECTIVE		<u>1</u>
		17

Second Semester

BIOL 104	General Biology II	3 (3,0)
CH 102	General Chemistry	4 (3,3)
EG 105	Engineering Drawing	2 (1,3)
ENGL 102	English Composition	3 (3,0)
FOR 102	Intro. to Forestry	1 (1,0)
PolSc 101	Amer. Natl. Govt.	3 (3,0)
ELECTIVE		<u>1</u>
		17

SOPHOMORE

FOR 205	Dendrology	4 (3,3)
FOR 221	Wood Properties I	3 (2,3)
PHYS 207	General Physics I	4 (3,2)
Literature Requirement ¹		3 (3,0)
ELECTIVE		<u>4</u>
		18

CompSC 110	Elem. Comp. Prog.	3 (3,0)
ECON 211	Prin of Economics	3 (3,0)
FOR 222	Wood Properties II	3 (2,3)
PHYS 208	General Physics II	4 (3,2)
ELECTIVE		<u>4</u>
		17

FORESTRY SUMMER CAMP

FOR 253	Forest Mensuraiton	4
FOR 254	Forest Products	1
FOR 255	Secondary Wood Products	<u>1</u>
		6

JUNIOR

ENGL 314	Technical Writing	3 (3,0)
EX ST 301	Intro Statistics	3 (2,2)
FOR 325	Wood Chemistry	3 (2,3)
EMPHASIS AREA		5
		<u>17</u>

FOR 310	Silviculture	4 (3,3)
FOR 304	Forest Economics	3 (3,0)
FOR 306	Wood and Wood Fiber Identification	2 (1,3)
FOR 328	Wood Processing II	3 (2,3)
EMPHASIS AREA		<u>6</u>
		18

SENIOR

ENGL 301	Public Speaking	3 (3,0)
FOR 420	Forest Products	3 (2,3)
FOR 401	Harvesting For Pro. I	2 (1,3)
FOR 429	Wood Design	3 (2,3)
IM 304	Stat Quality Control	3 (3,0)
Approved Elective		<u>3</u>
		17

FOR 411	Harvesting For. Pro. II	3 (2,3)
FOR 430	Composite Wood Mtrls.	3 (2,3)
FOR 433	Merchan. For. Prdts.	3 (3,0)
FOR 434	Foreign Woods	2 (1,3)
APPROVED ELECTIVE		<u>6</u>
		17

TOTAL SEMESTER HOURS = 144

¹To be selected from the following: ENG 202, 203, 204, 205, 206, 207, 208, 209.

B. S. IN ACCOUNTING

FRESHMANFirst Semester

ENGL 101	English Composition	3 (3,0)
MATH 106	Cal of One Var I	4 (4,0)
ECON 211	Principles of Econ.	3 (3,0)
COMPSC 120	Intro. to Infor. Pro.	
	Systems	3 (3,0)
Science Elective ¹		4 (3,3)
		<u>17</u>

Second Semester

ENGL 102	English Composition	3 (3,0)
MATH 108	Cal of One Var II	4 (4,0)
ECON 212	Principles of Econ.	3 (3,0)
COMPSC 130	Cobol ¹	3 (3,0)
Science Elective ¹		4 (3,3)
		<u>17</u>

SOPHOMORE

ACCT 201	Prin. of Accounting	3 (3,0)
Literature Elective ²		3 (3,0)
MATH 210	Applied Matrix Algebra	3 (3,0)
History Elective		3 (3,0)
SOC 201	Sociological Perspec.	3 (3,0)
ELECTIVE		<u>1</u>
		<u>16</u>

ACCT 202	Prin. of Accounting	3 (3,0)
Literature Elective ²		3 (3,0)
MATH 301	Stat. Theory & Meth I	3 (3,0)
PSYCH 201	General Psychology	3 (3,0)
ELECTIVE		3
		<u>15</u>

JUNIOR

ACCT 301	Inter Accounting	3 (3,0)
FIN 306	Corp. Fin.	3 (3,0)
ECON 314	Inter. Econ. Theory	3 (3,0)
ENGL 301	Public Speaking	3 (3,0)
MATH 405	Stat. Theory & Meth II	3 (3,0)
IM 301	Princ. of Management	3 (3,0)
		<u>18</u>

ACCT 302	Inter.. Accounting	3 (3,0)
ACCT 303	Cost Accounting	3 (3,0)
ENGL 314	Technical Writing	3 (3,0)
IM 308	Prin. of Marketing	3 (3,0)
ELECTIVE		3
		<u>15</u>

SENIOR

ACCT 305	Income Taxation	3 (3,0)
ACCT 410	Budget & Exec. Control	3 (3,0)
ACCT 411	Advanced Acct.	3 (3,0)
ACCT 415	Auditing	3 (3,0)
LAW 312	Commercial Law	3 (3,0)
IM 400	Mgt. of Org. Behavior	3 (3,0)
		<u>18</u>

ACCT 405	Adv. Federal Taxes	3 (3,0)
ACCT 407	Accounting Research	1 (1,0)
IM 402	Oper Plan & Control	3 (3,0)
IM 415	Business Policy	3 (3,0)
LAW 313	Commercial Law	3 (3,0)
ELECTIVE		<u>3</u>
		<u>16</u>

TOTAL SEMESTER HOURS = 132

¹Science elective includes any natural or physical science.²To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.

(Continued . . . ATTACHMENT 10)

B. S. IN ACCOUNTING

Note: Accounting Majors are required to earn a grade of C or higher in all pre-requisite accounting courses in order to be eligible for enrollment in the next higher-level accounting course.

English 100 and any math credits on a level lower than Math 106 may NOT be counted in computing the minimum number of credit hours required for graduation with a B.S. in Accounting degree.

B. S. IN FINANCIAL MANAGEMENT

FRESHMANFirst Semester

ENGL 101	English Composition	3 (3,0)
MATH 102	Intro to Math Analyl ¹	3 (3,0)
ECON 211	Prin. of Economics	3 (3,0)
POLSC 101	Amer. Natl. Govt.	3 (3,0)
SOC 201	Soc. Perspec.	3 (3,0)
ELECTIVE ²		<u>1</u>
		16

Second Semester

ENGL 102	English Composition	3 (3,0)
MATH 207	Multivar. Calculus	3 (3,0)
ECON 212	Prin. of Economics	3 (3,0)
PSYCH 201	General Psychology	3 (3,0)
COMPSC 120	Intro to Info Pro Sys	3 (3,0)
ELECTIVE ²		<u>1</u>
		16

SOPHOMORE

ACCT 201	Prin. of Accounting	3 (3,0)
Literature Elective ³		3 (3,0)
MATH 301	Stat. Th & Meth I	3 (3,0)
History Elective		3 (3,0)
ELECTIVE ²		<u>4</u>
		16

ACCT 202	Prin. of Accounting	3 (3,0)
Literature Elective ³		3 (3,0)
MGT SC 310	Intro to Mgt. Sci.	3 (3,0)
ELECTIVE ²		<u>6</u>
		15

JUNIOR

ACCT 301	Inter. Accounting	3 (3,0)
ECON 314	Inter Econ Theory	3 (3,0)
ECON 302	Money & Banking	3 (3,0)
IM 301	Prin. of Management	3 (3,0)
FIN 306	Corp. Finance	3 (3,0)
LAW 312	Commercial Law	<u>3 (3,0)</u>
		18

ACCT 302	Inter. Accounting	3 (3,0)
ACCT 307	Managerial Acct ⁴	3 (3,0)
IM 308	Prin. of Marketing	3 (3,0)
FIN 308	Fin Inst. & Markets	3 (3,0)
LAW 313	Commercial Law	3 (3,0)
ENGL 314	Technical Writing	<u>3 (3,0)</u>
		18

SENIOR

ACCT 305	Income Taxation	3 (3,0)
FIN 402	Capital Budgeting	3 (3,0)
FIN 310	Prob in Fin Mgt	3 (3,0)
IM 402	Oper Plan & Control	3 (3,0)
ENGL 301	Public Speaking	3 (3,0)
RESTRICTED ELECTIVE ⁵		<u>3 (3,0)</u>
		18

FIN 404	Seminar in Finance	3 (3,0)
IM 415	Business Policy	3 (3,0)
IM 400	Mgt. of Org. Behavior	3 (3,0)
RESTRICTED ELECTIVE ⁵		<u>6</u>
		15

TOTAL SEMESTER HOURS = 132

¹Credits earned in MATH 106 and 108 may be substituted for MATH 102 and 207, respectively, and 1 or 2 elective hours.

²Nine elective credits must be in nonbusiness areas. (Elective hours may be taken in any combination of 1, 2, 3, or 4-hour courses.)

³To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.

⁴ACCT 303 may be substituted for ACCT 307 only if ACCT 410 is also taken as Restricted Elective

(Continued . . . ATTACHMENT 11)

B. S. IN FINANCIAL MANAGEMENT

⁵Nine Restricted Elective credits must be completed from the following: (1) any 300 or 400 level courses offered by the Dept. of Accounting and Finance (except as noted in footnote #4 above), and/or (2) the following courses: COMP SC 130, 151 & 155 (both), E & CE 470, ECON 305, 306, 412, 430, MGT SC 311, 413, 414.

NOTE: Financial Management majors are required to earn a grade of C or higher in all prerequisite accounting courses to be eligible for enrollment in the next higher-level accounting course.

MATH 100, 101 , and 105 and ENGL 100 may NOT be used as elective credit toward requirements for graduation with a B.S. in Financial Management.

B. A. IN ECONOMICS

FRESHMANFirst Semester

ENGL 101	English Composition	3 (3,0)
HIST 172	Western Civilization	3 (3,0)
MATH 102	Intro to Math Anal. ¹	3 (3,0)
Modern Language		4 (3,1)
Natural Science ²		4
ELECTIVE		<u>1</u>
		18

Second Semester

ENGL 102	English Composition	3 (3,0)
HIST 173	Western Civilization	3 (3,0)
MATH 101	Finite Probability ¹	3 (3,0)
Modern Language ²		4 (3,1)
Natural Science ²		4
ELECTIVE		<u>1</u>
		18

SOPHOMORE

ECON 211	Prin of Economics	3 (3,0)
HIST 101	History of the U.S. ³	3 (3,0)
MATH 203	Elem. Stat. Infer. ¹	3 (3,0)
Literature Requirement ⁴		3 (3,0)
Modern Language		3 (3,0)
ELECTIVE		<u>1</u>
		16

ECON 212	Prin of Economics	3 (3,0)
HIST 102	History of the U.S.	3 (3,0)
MATH 207	Multivariable Cal.	3 (3,0)
Literature Requirement ⁴		3 (3,0)
Modern Language		3 (3,0)
ELECTIVE		<u>2</u>
		17

JUNIOR

ACCT 200	Basic Accounting	
<u>or</u>		
Acct 201	Prin. of Acct.	3 (3,0)
ECON 314	Inter. Econ. Theory	3 (3,0)
Humanities ⁵		3
Major ⁶		3
Minor		<u>3</u>
		15

ECON 407	National Income & Employment Anal.	3 (3,0)
Humanities ⁵		3
Major ⁶		3
Minor		6
		<u>15</u>

SENIOR

Major ⁶	6
Minor	6
ELECTIVE	<u>3</u>
	15

Major ⁶	6
ELECTIVE	10
	<u>16</u>

TOTAL SEMESTER HOURS = 130

¹The sequence Math 101, 102, 203, 207, may be replaced either by Math 102, 207, 210, 301 or 106, 207, 210, 301.

²Two courses, totalling eight hours, in the same science area are required.

³Students minoring in political science, psychology, or sociology may substitute Pol Sc 101 or 201; Psych 201, 263; or Soc 201, 202, for Hist 101, 102.

⁴To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.

(Continued . . . ATTACHMENT 12)

B.A. IN ECONOMICS

⁵ To be selected from English, humanities, modern language, music, philosophy, religion, visual studies.

⁶ Twenty-four semester hours in Economics above the sophomore level are required, including ECON 314 and 407. ECON 101, 203, do not count toward the major. Major credit may include up to 6 hours selected from HIST 306, IM 404, 406, MGT SC 311 and SE 484. Those seeking teacher certification will be required to complete more than 130 semester hours.

MINOR CONCENTRATIONS:

Any minor approved by the College of Liberal Arts, including the "Cluster Minor " and any minor concentration offered by any other department in the College of Industrial Management and Textile Science is acceptable as a minor for the Bachelor of Arts curriculum in Economics. Specific requirements for most minors may be found under the section on the College of Liberal Arts and the College of Sciences, Bachelor of Arts curriculum.

Students who wish to combine the curriculum in Economics with secondard school teaching should elect to take the degree in Education with a teaching area in Economics. The courses will be those required for teaching certification as specified by the South Carolina Department of Education as well as those economics courses required for an Economics major. Requirements for a major in Education with a teaching area in Economics are shown under the College of Education.

A minor in Economics is provided for other degree programs consisting of 15 hours above the sophomore level which must include Economics 314 and 407.

NOTE: This statement replaces the entire page 125 of the 1979-80 catalog.

B. S. IN ECONOMICS

FRESHMANFirst Semester

ACCT	201	Prin. of Accounting	3 (3,0)
ENGL	101	English Composition	3 (3,0)
HIST	172	Western Civilization	3 (3,0)
MATH	106	Cal. of One Var. I ¹	4 (4,0)
		Natural Science ²	4
			<u>17</u>

Second Semester

ACCT	202	Prin. of Accounting	3 (3,0)
ENGL	102	English Composition	3 (3,0)
HIST	173	Western Civilization	3 (3,0)
MATH	207	Multivariable Calc. ¹	3 (3,0)
		Natural Science ²	4
		ELECTIVE	<u>1</u>
			<u>17</u>

SOPHOMORE

COMPSC	120	Intro to Info. Pro. Systems <u>or</u>	
COMPSC	110	Elem. Comp. Prog.	3 (3,0)
ECON	211	Prin. of Economics	3 (3,0)
MATH	301	Stat. Theory & Meth I ¹	3 (3,0)
		Literature Requirement ⁴	3 (3,0)
		Social Science Elective ⁵	3
		ELECTIVE	<u>1</u>
			<u>16</u>

ECON	212	Prin. of Economics	3 (3,0)
FIN	306	Corporation Finance	3 (3,0)
		Literature Requirement ⁴	3 (3,0)
MATH	210	Appl. Matrix Alge. ¹	3 (3,0)
		Social Science Elective ⁵	3
		ELECTIVE	<u>1</u>
			<u>16</u>

JUNIOR

ECON	314	Inter. Econ. Theory	3 (3,0)
LAW	322	Legal Environ. of Bus.	
		<u>or</u>	
LAW	312	Commercial Law	3 (3,0)
		Major ⁶	3
		Option	3
		ELECTIVE	<u>4</u>
			<u>16</u>

ECON	407	National Income & Employment Anal.	3 (3,0)
		Major ⁶	3
		Option	3
		ELECTIVE	<u>6</u>
			<u>15</u>

SENIOR

		Major ⁶	6
		Option	6
		Elective	<u>6</u>
			<u>18</u>

		Major ⁶	6
		Option	5-3
		ELECTIVE	<u>6-8</u>
			<u>17</u>

TOTAL SEMESTER HOURS = 132

¹The sequence of Math 106, 207, 210, 301, may be replaced by Math 102, 207, 210, 301 or 101, 102, 203, and 207.

²Two courses totalling eight hours (excluding Phy Sc 101, 102) are required.

³Comp Sc 110 should be selected for the Computer Science and Mathematical Sciences-Statistics option. Comp Sci 120 should be selected for the Management Science and Accounting options.

(Continued . . . ATTACHMENT 13)

B. S. ECONOMICS

⁴To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.

⁵Electives to be selected from 300- and 400-level courses in history, political science, psychology and sociology.

⁶Twenty-four semester hours in Economics above the sophomore level are required, including ECON 314 and 407. ECON 101, 203 do not count toward the major. Major credit may include up to 6 hours selected from HIST 306, IM 404, 406, MGT SC 311 and SE 484

OPTIONS

Rather than having a minor or secondary concentration as in the Bachelor of Arts program in Economics, a student in the Bachelor of Science program selects one of several options. These options generally consist of 15 hours of a certain core of study. It is felt that these options might be particularly appealing to certain students with definite vocational interests. Also, an appropriately chosen option would greatly facilitate moving into a Master of Business Administration program in graduate school or law school.

Students enrolling in the Bachelor of Science program in Economics may select from the following options:

ACCOUNTING⁷

ACCT	301	Inter. Accounting	3 (3,0)
ACCT	302	Inter. Accounting	3 (3,0)
ACCT	303	Cost Accounting	
		<u>and</u>	
ACCT	305	Income Tax	
		<u>or</u>	
ACCT	411	Advanced Acct.	3 (3,0)
		<u>and</u>	
ACCT	415	Auditing	3 (3,0)
LAW	313	Commercial Law	3 (3,0)
			<u>15</u>

COMPUTER SCIENCE

IM	299	Computer Utilization I	1 (1,0)
COMPSC	130	Data Processing with	
		Cobol	3 (3,0)
COMPSC	210	Programming Meth.	3 (3,0)
Two additional Computer Sci.			
courses at the 300 or 400 level			
			6
IM	418	Management Info. Sys.	3 (3,0)
		<u>and</u>	
IM	499	Computer Utiliza. II	1 (1,0)
		<u>or</u>	
MGTSC	311	Intro to Econometrics	3 (3,0)
			<u>16-17</u>

MANAGEMENT SCIENCE

ACCT	303	Cost Accounting	
		<u>or</u>	
ACCT	305	Income Taxation	
		<u>or</u>	
LAW	312	Commercial Law	3 (3,0)
MGT SC	311	Intro to Econometrics	3 (3,0)
MGT SC	413	Management Sci. I	3 (3,0)
		Quantitative Elective	6
			<u>15</u>

MATHEMATICAL SCIENCES--STATISTICS

ECON	430	Math Economics	3 (3,0)
MATH	411	Linear Algebra	3 (3,0)
MATH	405	Stat. Theory & Meth II	3 (3,0)
MATH	452	Linear Programming	3 (3,0)
MGT SC	311	Intro. to Econometrics	3 (3,0)
			<u>15</u>

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 13)

B. S. IN ECONOMICS

ENVIRONMENTAL STUDIES

AG EC	403	Land Economics	3 (3,0)
BOT	145	Environmental Dynamics	2 (2,0)
CRD	357	Nat. Res. Economics	3 (3,0)
EN SC	471	Man & His Environment	2 (2,0)
EN SC	472	Env. Plan. & Control	2 (2,0)
FOR	304	Forest Econ.	3 (3,0)
			<u>15</u>

PUBLIC ADMINISTRATION⁹

POL SC	302	State & Local Gov't.	3 (3,0)
POL SC	321	Gen. Public Admin.	3 (3,0)
POL SC	422	Prob. of Pub. Admin.	3 (3,0)
POL SC	423	Municipal Admin.	3 (3,0)
POL SC	425	Gov't. Budget. Process	3 (3,0)
			<u>15</u>

SOCIAL SCIENCE

HIST	306	Amer. Econ. Dev.	3 (3,0)
POLSC	321	Gen. Pub. Admin.	
or			
POLSC	361	Inter. Politics	3 (3,0)
SOC	351	Industrial Sociology	3 (3,0)
ELECTIVE ¹⁰			6
			<u>15</u>

TEXTILE SCIENCE

TEXT	122	Intro. to Textiles	2 (1,3)
TEXT	305	Basic Fibers	3 (3,0)
TEXT	306	Yarn Formation	3 (3,0)
TEXT	313	Fabric Formation	3 (3,0)
TEXT	314	Dyeing & Finishing	3 (3,0)
TEXT	475	Textile Marketing	3 (3,0)
			<u>17</u>

URBAN STUDIES

SOC	206	Intro. to Meth. of Soc. Research	3 (3,0)
SOC	331	Urban Sociology	3 (3,0)
CRD	411	Regional Impact Analysis	3 (2,3)
IM	406	Theory of Ind. Location	3 (3,0)
ECON	421	Urban Economics	3 (3,0)
			<u>15</u>

⁷Students in the accounting option should select Law 312 in lieu of Law 322 in the junior year.

⁸Quantitative electives in the Management Science option are to be selected from the following: ECON 430, IM 404, MGT SC 414, MATH 405.

⁹Students in the Public Administration option are required to take Pol Sc 101 and 201; ECON 420 and 421 are to be included in major.

¹⁰Electives in the Social Sciences option are to be selected from 300- and 400-level courses in history, political science, psychology and sociology.

ADMINISTRATIVE MANAGEMENT
(Safety and Health Concentration)

FRESHMAN

CHEM 101	General Chem	4 (3,3)	CHEM 102	General Chem	4 (3,3)
ENGL 101	English Composition	3 (3,0)	ENGL 102	English Composition	3 (3,0)
MATH 102	Intro. to Math Anal. ¹	3 (3,0)	MATH 207	Multivariate Cal. ¹	3 (3,0)
POLSC 101	Amer. Nat'l. Gov't.	3 (3,0)	ECON 211	Prin. of Economics	3 (3,0)
History Elective ²		3 (3,0)	COMPSC 120	Introl to Info. Pros. Systems	3 (3,0)
		<u>16</u>			<u>16</u>

SOPHOMORE

ACCT 201	Prin. of Accounting	3 (3,0)	ACCT 202	Prin. of Accounting	3 (3,0)
ECON 212	Prin. of Econ.	3 (3,0)	ENGL 301	Public Speaking	3 (3,0)
MATH 301	Stat Theo Meth I	3 (3,0)	IM 304	Stat. Quality Cont.	3 (3,0)
PSYCH 201	Gen. Psychology	3 (3,0)	PSYCH 301	Ind. Psychology	3 (3,0)
Literature Requirement ³		3 (3,0)	SH 201	Scope of OSH	3 (3,0)
ELECTIVE		<u>1</u>	ELECTIVE		<u>1</u>
		<u>16</u>			<u>16</u>

JUNIOR

SH 301	Ind. Accident Prev. & Loss Con. I	3 (3,0)	SH 302	Ind. Accident Prev. & Loss Con. II	3 (3,0)
SH 303	Intro. to Industrial Hygiene	3 (3,0)	SH 304	Industrial Hygiene Practice	4 (3,3)
Economics Elective ⁴		3 (3,0)	Economics Elective ⁴		3 (3,0)
FIN 306	Corporation Fin	3 (3,0)	IM 307	Personnel Mgt.	3 (3,0)
MGTS 310	Intro. to Mgt. Sc.	3 (3,0)	ENGL 304	Advanced Composition	
IM 301	Prin. of Mgt.	3 (3,0)	or		
		<u>18</u>	ENGL 314	Technical Writing	3 (3,0)
					<u>16</u>

SENIOR

SH 401	Fun of Fire & Ex	3 (3,0)	SH 402	Fire Pro. & Pre.	3 (3,0)
IM 308	Prin. of Marketing	3 (3,0)	SH 404	Seminar in S & H	3 (3,0)
IM 418	Mgt Info Systems	3 (3,0)	IM 415	Business Policy	3 (3,0)
IM 499	Comp Util II	1 (1,0)	IM 402	Op Plan & Control	3 (3,0)
LAW 322	Legal Env of Bus	3 (3,0)	IM 407	Directed Research	1 (1,0)
ELECTIVE		<u>6</u>	ELECTIVE		<u>6</u>
		<u>19</u>			<u>19</u>

TOTAL SEMESTER HOURS = 136

¹

Credits earned in Math 106, and 108 may be substituted for Math 102, 207, and elective credits. (Math 100 and 105 are not counted in degree requirements)

⁴History elective to be selected from Hist 101, 102, 172, 173, 304, and 306.

³To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.

⁴At least two of the following courses: Econ 301, 306, 308, 309, 314, 420, 424, and IM 404.

ADMINISTRATIVE MANAGEMENT

FRESHMANFirst Semester

ENGL 101	English Composition	3 (3,0)
HIST 173	Western Civilization	
<u>or</u>		
PolSc 101	Amer. Natl. Gov't.	3 (3,0)
MATH 102	Intro. to Math Anal. ³	3 (3,0)
COMPSC 120	Intro to Info. Proc.	
	Systems	3 (3,0)
Science Elective ¹		4
ELECTIVE		<u>1</u>
		17

Second Semester

ECON 211	Principles of Econ.	3 (3,0)
ENGL 102	English Composition	3 (3,0)
HIST 173	Western Civilization	
<u>or</u>		
Pol Sc 101	Amer. Natl. Gov't.	3 (3,0)
MATH 207	Multiv. Calculus ³	3 (3,0)
Science Elective ¹		4
ELECTIVE		<u>1</u>
		17

SOPHOMORE

ACCT 201	Prin of Accounting	3 (3,0)
ECON 212	Prin of Economics	3 (3,0)
Literature	Requirement ²	3 (3,0)
MATH 301	Stat. Theo. & Meth	3 (3,0)
PSYCH 201	General Psychology	3 (3,0)
ELECTIVE		<u>1</u>
		16

ACCT 202	Prin of Accounting	3 (3,0)
SOC 201	Sociological Persp.	3 (3,0)
IM 304	Stat. Quality Control	3 (3,0)
ECON 301	Econ of Labor	3 (3,0)
ELECTIVE		<u>4</u>
		16

JUNIOR

IM 301	Prin. of Management	3 (3,0)
ACCT 303	Cost Accounting	3 (3,0)
LAW 322	Legal Environ. of Bus	3 (3,0)
IM 308	Prin. of Marketing	3 (3,0)
MGTSC 310	Intro. to Mgt. Sci.	3 (3,0)
ELECTIVE		<u>3</u>
		18

ACCT 410	Budgeting & Exec.	
	Control	3 (3,0)
ENGL 304	Advanced Composition	3 (3,0)
FIN 306	Corporation Finance	3 (3,0)
IM 307	Personnel Mgt.	3 (3,0)
ELECTIVE		<u>4</u>
		16

SENIOR

ENGL 301	Public Speaking	3 (3,0)
IM 402	Oper. Plan. & Cont.	3 (3,0)
IM 418	Mgt. Infor. Sys.	3 (3,0)
IM 499	Como, Util. II	1 (1,0)
Management Option ⁴		6
		<u>16</u>

IM 407	Directed Research	
<u>or</u>		
IM 410	Dir. Res. in Mktg.	1 (1,0)
IM 412	Marketing Mgt.	3 (3,0)
IM 415	Business Policy	3 (3,0)
Approved Elective ⁵		<u>9</u>
		16

TOTAL SEMESTER HOURS = 132

¹Must be a two semester sequence (Chem 101, 102; Biol 103, 104, or Phy 207, 208).²To be selected from the following: ENGL 202 through 209.³Credits earned in Math 106, 108 may be substituted for Math 102, 207 and elective credits.

(Continued . . . ATTACHMENT 15)

ADMINISTRATIVE MANAGEMENT

- ⁴Management options. In the senior year must complete one of two management options. To receive credit, at least two courses in the option must be completed;
Regional Analysis: IM 404 and 405 or 406--Logistics: IM 417 and ECON 419 or IM 420.
- ⁵Approved Elective. One course from each of the three areas listed is required for the nine hours of approved electives. Six hours of the free electives must be in non-business areas. Economics: ECON 302, 308, 309, 407, 419, 424--Marketing: IM 401, 413, 419, 421--Management: Any senior-level course in the Department of Industrial Management.

Effective: Fall 1980

B. S. IN INDUSTRIAL MANAGEMENT

FRESHMANFirst Semester

CH	101	General Chem.	4 (3,3)
EG	109	Eng. Graphics	2 (1,3)
ENGL	101	Engl Composition	3 (3,0)
HIST	173	Western Civilization	3 (3,0)
MATH	106	Cal of One Var I	4 (4,0)
			<u>16</u>

Second Semester

CH	102	General Chem.	4 (3,3)
ENGL	102	Engl Composition	3 (3,0)
ECON	211	Principles of Econ	3 (3,0)
MATH	108	Cal of One Var II	4 (4,0)
PHYS	207	General Physics I	4 (3,2)
			<u>18</u>

SOPHOMORE

ACCT	201	Principles of Acct.	3 (3,0)
ECON	212	Principles of Econ.	3 (3,0)
ENGR	220	Tech in Mod World	3 (3,0)
MATH	210	Appl. Matrix Alg.	3 (3,0)
MATH	301	Stat Theo & Meth	3 (3,0)
PSYCH	201	General Psychology	3 (3,0)
			<u>18</u>

ACCT	202	Principles of Acct.	3 (3,0)
COMPSC	120	Intro. to Inform. Proc. Sys.	3 (3,0)
ECON	314	Inter Econ Theo	3 (3,0)
Literature	Requirement ¹		3 (3,0)
IM	304	Stat. Quality Control	3 (3,0)
			<u>15</u>

JUNIOR

ACCT	307	Managerial Acct	3 (3,0)
IM	301	Prin. of Management	3 (3,0)
ENGL	304	Advanced Comp.	3 (3,0)
IM	299	Comp Utilization I	1 (0,3)
IM	308	Prin. of Marketing	3 (3,0)
ELECTIVE			<u>3</u>
			16

FIN	306	Corporate Finance	3 (3,0)
ECON	407	Natl Inc. & Empl Ana	3 (3,0)
LAW	322	Leg Env of Bus	3 (3,0)
MGTSC	311	Intro to Econometrics	3 (3,0)
Area Concentration of Tech. Elec. ²			3
ELECTIVE			<u>3</u>
			18

SENIOR

ENGL	301	Public Speaking	3 (3,0)
IM	408	Work Simp & Stand	3 (3,0)
IM	402	Oper Plan & Cont	3 (3,0)
MGTSC	414	Stat. Analysis	3 (3,0)
Area Concentration or Tech. Elec. ²			3
ELECTIVE			3
			18

IM	418	Mgt Info Systems	3 (3,0)
IM	407	Directed Research	
	<u>or</u>		
IM	410	Dir Res in Marketing	1 (1,0)
IM	415	Bus Policy	3 (3,0)
IM	499	Comp Utilization II	1 (1,0)
MGTSC	413	Mgt Sc I	3 (3,0)
Area Concentration of Tech. Elec.			² 3
ELECTIVE			<u>3</u>
			17

TOTAL SEMESTER HOURS = 136

¹English 202 through 209.²The student is encouraged to select an area concentration. He may, with the approval of his advisor, select instead 9 credits from an approved technical elective list.

MEDICAL TECHNOLOGY

FRESHMANFirst Semester

BIOL	110	Prin. of Biology I	5 (4,3)
CH	101	General Chemistry	4 (3,3)
ENGL	101	English Composition	3 (3,0)
MATH	106	Cal of One Var I	4 (4,0)
MED TECH	101	Introduction to Medical Technology	$\frac{1}{17}$ (1,0)

Second Semester

BIOL	111	Prin. of Biology II	5 (4,3)
CH	112	General Chemistry	4 (3,3)
ENGL	102	English Composition	3 (3,0)
Mathematics	Requirement ²		3-4
ELECTIVE			3-2
			18

SOPHOMORE

CH	223	Organic Chemistry	3 (3,0)
CH	227	Organic Chem. Lab.	1 (0,3)
HIST	172	Western Civilization	3 (3,0)
MICRO	305	Gen. Microbiology	4 (3,3)
Literature Requirement ¹			3 (3,0)
Physics Elective ³			$\frac{3-4}{17-18}$

BIOCH	301	Molecular Biology	3 (3,0)
CH	224	Organic Chemistry	3 (3,0)
CH	228	Organic Chem. Lab.	1 (0,3)
Literature Requirement ¹			3 (3,0)
Physics Elective ³			3-4
ELECTIVE			$\frac{3}{17-18}$

JUNIOR

CH	313	Quantitative Analysis	3 (3,0)
CH	317	Quant. Anal. Lab.	1 (0,3)
<u>or</u>			
CH	310	Elem. Chem. Inst.	4 (2,6)
GEN	305	Intro. to Molecu. Gen.	4 (3,3)
Humanities Elective ³			3
MICRO	414	Basic Immunology	$\frac{3}{14}$ (2,3)

MICRO	411	Path Bacteriology	4 (3,3)
Social Science Elective ³			3
ELECTIVE			4
Option Requirement ³			3
Humanities Elective			3
			17

SENIOR

(52 Weeks)				Credit	Lecture	Seminar	Clinical
				<u>Hours</u>	<u>Hours</u>	<u>Hours</u>	<u>Practice</u>
MED TECH	401	Serology and Immunology		4	21	10	$\frac{49}{--}$
MED TECH	402	Microbiology		7	59	6	470
MED TECH	403	Hematology		5	12	32	276
MED TECH	404	Blood Bank		3	8	20	132
MED TECH	407	Urinalysis		2	10	8	102
MED TECH	408	Chemistry		10	40	50	470
MED TECH	409	Radioisotopes		$\frac{1}{32}$	2	0	7

TOTAL SEMESTER HOURS = 133-135

¹To be selected from the following: Engl 202, 203, 204, 205, 206, 207, 208, 209.

²To be selected from Comp Sc 110, Ex St 301, Math 103, 301.

³To be chosen from courses required to complete an alternate degree should the student not be accepted to a hospital school after completion of the academic requirement for the baccalaureate degree in Medical Technology.

Effective: Fall, 1980

PREPHYSICAL THERAPY

First Semester

*CH	101	General Chemistry	4 (3,3)
BIOL	103	General Biology I	3 (3,0)
BIOL	105	General Biology Lab I	1 (0,3)
ENGL	101	English Composition	3 (3,0)
ELECTIVES			<u>6</u>
			17

Second Semester

CH	102	General Chemistry	4 (3,3)
BIOL	104	General Biology II	3 (3,0)
BIOL	106	Gen. Biology Lab. II	1 (0,3)
ENGL	102	English Composition	3 (3,0)
ELECTIVES			<u>6</u>
			17

Third Semester

*PHYS	207	General Physics I	4 (3,2)
ZOOL	222	Human Anatomy	4 (3,3)
ELECTIVES			<u>9</u>
			17

Fourth Semester

PHYS	208	General Physics II	4 (3,2)
ZOOL	223	Human Physiology	4 (3,3)
ELECTIVES			<u>9</u>
			17

TOTAL SEMESTER HOURS = 68

*Chemistry requires proficiency in Algebra, and Physics requires proficiency in Trigonometry; therefore, entering freshmen must present a score of 550 or above on Level II of the Mathematics Achievement Test or register in the first semester for Mathematics 105, Algebra and Trigonometry.

Effective: Fall 1980

B. S. IN MATHEMATICAL SCIENCES

FRESHMANFirst Semester

CH	101	General Chemistry ²	4 (3,3)
COMPSC	110	Elem. Comp. Prog.	3 (3,0)
ENGL	101	English Composition	3 (3,0)
MATH	150	Intr. to Math Sci.	1 (1,0)
MATH	106	Cal of One Var I	4 (4,0)
			<u>15</u>

Second Semester

CH	102	General Chemistry ^{2,8}	4 (3,3)
ECON	211	Prin. of Economics	3 (3,0)
ENGL	102	English Composition	3 (3,0)
MATH	108	Cal of One Var II	4 (4,0)
ELECTIVE ³			3
			<u>17</u>

SOPHOMORE

MATH	206	Cal of Sev. Var	4 (4,0)
MATH	301	Stat. Theo & Meth I	3 (3,0)
PHYS	122	Phys. with Cal. I	3 (2,2)
Literature	Requirement ¹		3 (3,0)
ELECTIVE ³			3
			<u>16</u>

MATH	208	Engineering Math. I	4 (4,0)
MATH	411	Linear Algebra	3 (3,0)
Literature	Requirement ¹		3 (3,0)
ELECTIVE ³			3
HIST	172	or 173 West. Civ.	3 (3,0)
			<u>16</u>

JUNIOR

MATH	360	Inter. Math. Comp.	3 (3,0)
MATH	453	Advanced Calculus I	
	<u>or</u>		
MATH	463	Math. Analysis I	3 (3,0)
Modern Language			4 (3,1)
Option			3
ELECTIVE ³			<u>4</u>
			<u>17</u>

MATH	350	Intr. to Math. Mod.	3 (3,0)
MATH	454	Advanced Calculus II	
<u>or</u>			
MATH	464	Math. Analysis II	3 (3,0)
Modern Language			4 (3,1)
Option			3
ELECTIVE ³			<u>4</u>
			17

SENIOR

ENGL	301	Public Speaking	3 (3,0)
MATH	412	Intr. to Mod. Alge.	
<u>or</u>			
MATH	419	Discrete Math. Strs. ^I	3 (3,0)
MATH	402	Theo. of Probability	3 (3,0)
Option			3
ELECTIVE ³			4
			<u>16</u>

Mathematics Elective ⁴	3
Option	3
ELECTIVE	10
	16

TOTAL SEMESTER HOURS = 130

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 19)

B. S. IN MATHEMATICAL SCIENCESOPTIONSChemistry

CH	331	Physical Chemistry	3 (3,0)
CH	332	Physical Chemistry	3 (3,0)
CH	339	Physical Chemistry Lab I	(0,3)
CH	340	Physical Chemistry Lab I	(0,3)
CH	402	Inorganic Chemistry	3 (3,0)
CH	435	Spectroscopy & Mol. Structure	<u>3 (3,0)</u>
			14

Managerial Science⁵

IM	402	Oper. Plan. & Control	3 (3,0)
IM	404	Managerial Economics	
<u>or</u>			
IM	418	Mgt. Infor. Sys.	3 (3,0)
MATH	404	Intro. to Stoch. Proc.	3 (3,0)
MATH	452	Linear Programming	3 (3,0)
			<u>12</u>

Physics⁶

PHYS	321	Mechanics I	3 (3,0)
PHYS	322	Mechanics II	3 (3,0)
<u>or</u>			
PHYS	441	Elec & Mag II	3 (3,0)
PHYS	340	Elec & Mag I	<u>3 (3,0)</u>
			9

Applied Mathematics

Three of the following from:

MATH	309	Engr. Mech. II	3 (3,0)
MATH	407	Partial Diff. Eqns.	3 (3,0)
MATH	435	Complex Variables	3 (3,0)
MATH	460	Intro to Num Anal I	3 (3,0)

Plus

Application Area Elective	<u>3</u>
	12

Statistics

MATH	404	Intr. to Stoch. Proc.	3 (3,0)
MATH	405	Statis. Theo. & Methods II	<u>3 (3,0)</u>
MATH	409	Statis. Theo. & Methods III	<u>3 (3,0)</u>
MATH	471	Applied Statistical Decision Theory	<u>3 (3,0)</u>
			12

Operations Research

MATH	460	Intro. to Numerical Analysis I	<u>3 (3,0)</u>
IM	402	Oper. Plan. & Contr.	3 (3,0)
MATH	404	Intro. to Stoch. Proc.	3 (3,0)
MATH	409	Stat. Theo. & Meth III	
<u>or</u>			
MATH	461	Intro. to Num. Analysis II	<u>3 (3,0)</u>
MATH	452	Linear Programming	<u>3 (3,0)</u>
			15

Psychology

PSYCH	201	General Psychology	3 (3,0)
PSYCH	263	Intro Exper Psych	3 (3,0)
PSYCH	305	Applied Psychology	3 (3,0)
PSYCH	363	Adv Exper Psych	4 (3,3)
PSYCH	471	Psych Test Eval	<u>3 (3,0)</u>
			16

(CONTINUED Next Page)

(Continued . . . ATTACHMENT 19)

B.S. IN MATHEMATICAL SCIENCES

OPTIONS

- ¹To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.
- ²Those wanting to take languages the freshman year instead of the junior year may postpone these courses.
- ³These electives must be approved by the advisor. Total electives upon graduation must include one of the following sequences: BIOL. 103, 104, 105, 106; ECON 314; MGT SCI 311; PHYS 221, 223, 222, 224. The sequence chosen depends upon the option.
- ⁴To be selected from MATH 403, 404, 405.
- ⁵Select the following sequence: ECON 314, MGT SCI 311.
- ⁶Select the following sequence: PHYS 221, 222, 223, 224.
- ⁷Select the following sequence: BIOL 103, 104, 105, 106.
- ⁸Students in Chemistry option must take CH 112.

MATHEMATICAL SCIENCES - BIOLOGY OPTION

FRESHMANFirst Semester

BIOL	103	General Biology I ²	3 (3,0)
BIOL	105	General Biology Lab I	1 (0,3)
COMP SC	110	Elem. Comp. Prog.	3 (3,0)
ENGL	101	English Composition	3 (3,0)
MATH	106	Cal of One Var I	4 (4,0)
MATH	150	Intr to Math Sci	<u>1 (1,0)</u>
			15

Second Semester

BIOL	104	General Biology II ²	3 (3,0)
BIOL	106	Gen. Biology Lab II	1 (0,3)
ECON	211	Prin. of Economics	3 (3,0)
ENGL	102	English Composition	3 (3,0)
MATH	108	Cal of One Var II	4 (4,0)
ELECTIVE			<u>3</u>
			17

SOPHOMORE

CH	101	General Chemistry	4 (3,3)
MATH	206	Cal of Sev Var	4 (4,0)
MATH	301	Stat Theo & Meth I	3 (3,0)
Literature		Requirement ¹	3 (3,0)
PHYS	207	General Physics I	<u>4 (3,2)</u>
			18

CH	112	General Chemistry	4 (3,3)
MATH	208	Engineering Math I	4 (4,0)
MATH	411	Linear Algebra	3 (3,0)
PHYS	208	General Physics II	4 (3,2)
Literature		Requirement	<u>3 (3,0)</u>
			18

JUNIOR

CH	223	Organic Chemistry	3 (3,0)
CH	227	Organic Chemistry Lab	1 (0,3)
MATH	360	Inter Math Comp	3 (3,0)
MATH	453	Advanced Cal I	
<u>or</u>			
MATH	463	Math Analysis I	3 (3,0)
Modern Language			4 (3,1)
ELECTIVE ³			<u>2</u>
			16

CH	224	Organic Chemistry	3 (3,0)
CH	228	Organic Chemistry Lab	1 (0,3)
MATH	350	Intr to Math Models	3 (3,0)
MATH	454	Advanced Cal II	
<u>or</u>			
MATH	464	Math Analysis II	3 (3,0)
Modern Language			4 (3,1)
ELECTIVE			<u>2</u>
			16

SENIOR

BOT	202	Survey of Plant King	4 (3,3)
<u>or</u>			
ZOOL	202	Vert. Zoology	4 (3,3)
MATH	412	Intr to Mod Algebra	
<u>or</u>			
MATH	419	Discrete Math Strs I	3 (3,0)
MATH	402	Theo of Probability	3 (3,0)
ELECTIVE			<u>4</u>
			14

BOT	441	Plant Ecology	4 (3,3)
ENGL	301	Public Speaking	3 (3,0)
HIST	172	Western Civ.	
<u>or</u>			
HIST	173	Western Civ.	3 (3,0)
Mathematics		Elective ⁴	3 (3,0)
ELECTIVE ³			<u>3</u>
			16

TOTAL SEMESTER HOURS = 130

¹To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.²Those wanting to take languages the freshman year instead of the junior year may postpone these courses.³These electives must be approved by advisor.⁴To be selected from Math 403, 404, 405.

MATHEMATICAL SCIENCES - COMPUTER SCIENCE OPTION

FRESHMANFirst Semester

CH	101	General Chemistry ²	4 (3,3)
COMP SC	110	Elem. Comp. Prog.	3 (3,0)
ENGL	101	English Composition	3 (3,0)
MATH	150	Intr. to Math. Sci.	1 (1,0)
MATH	106	Cal of One Var I	4 (4,0)
			<u>15</u>

Second Semester

CH	102	General Chemistry ²	4 (3,3)
COMP SC		Elective ³	3
ECON	211	Prin. of Economics	3 (3,0)
ENGL	102	English Composition	3 (3,0)
MATH	108	Cal of One Var II	4 (4,0)
			<u>17</u>

SOPHOMORE

COMP SC	230	Assembly Language Programming	3 (3,0)
MATH	206	Cal of Sev. Variables	4 (4,0)
MATH	301	Stat Theo & Meth I	3 (3,0)
Literature		Requirement ¹	3 (3,0)
ELECTIVE			<u>3</u>
			<u>16</u>

MATH	360	Inter. Math. Comp.	3 (3,0)
MATH	208	Engineering Math I	4 (4,0)
MATH	411	Linear Algebra	3 (3,0)
Literature		Requirement ¹	3 (3,0)
HIST	172	or 173 West. Civ.	3 (3,0)
			<u>16</u>

JUNIOR

MATH	460	Intr. to Num Anal. I	3 (3,0)
MATH	350	Intr. to Math. Models	3 (3,0)
PHYS	122	Phys. with Cal. I	3 (2,2)
Modern Language			4 (3,1)
ELECTIVE ³			<u>4</u>
			<u>17</u>

ENGL	301	Public Speaking	3 (3,0)
MATH	402	Theory of Probability	3 (3,0)
MATH	412	Intr. to Mod. Algebra	
or			
MATH	419	Discrete Math Strs I	3 (3,0)
Modern Language			4 (3,1)
ELECTIVE ³			<u>4</u>
			<u>17</u>

SENIOR

MATH	453	Advan. Cal I	
or MATH	463	Math. Anal. I	3 (3,0)
Computer Science		Elective ⁵	3
Mathematics		Elective ⁴	3
ELECTIVE			<u>7</u>
			<u>16</u>

MATH	454	Advanced Cal II	
or MATH	464	Math. Anal. II	3 (3,0)
Computer Science		Elective ⁵	3
Elective ³			10
			<u>16</u>

TOTAL SEMESTER HOURS = 130

¹To be selected from the following: ENGL 202, 203, 204, 205, 206, 207, 208, 209.²Those wanting to take languages the freshman year instead of the junior year may postpone these courses.³These electives must be approved by advisors. Total electives upon graduation must include one of the following sequences: PHYS 221, 223, 222, 224; BIOL 103, 104, 105, 106; ECON 314, MGT SCI 311.⁴To be selected from the following: MATH 403, 404, 405, 452.⁵Select from 300 or 400-level computer science courses or mathematical science computing course.

BACHELOR OF ARTS

The curricula leading to the Bachelor of Arts degree are designed to meet the needs of those students who desire a broad general education. The first two years are spent in introductory work in several areas in order to give the student breadth of view. This background enables the student to select intelligently his major and minor fields of concentration. The major areas in the College of Sciences are Chemistry, Geology, Mathematical Sciences, and Physics.

A student has a large degree of flexibility and responsibility in designing the minor area from many departments in the University. All minors listed and described on page ____ under the College of Liberal Arts are approved for this program as well as any of the natural sciences and mathematical sciences. The courses for these minors are to be selected in consultation with the appropriate department. The minor fields are as follows:

Accounting	Mathematical Sciences
Biochemistry	Microbiology
Botany	Modern Languages
Chemistry	Music
"Cluster Minor"	Philosophy
Communications	Physics
Computer Science	Political Science
Drama	Psychology
Economics	Sociology
English	Spanish American Studies
Fine Arts	Speech
Geology	Zoology
History	

To fulfill requirements for a major concentration, a student takes 24 semester hours credit from courses above the sophomore level, including or in addition to certain courses specified by the major department; the minor concentration requires 15 credits from courses above the sophomore level. In some major and minor disciplines, certain prescribed courses at the sophomore level are counted toward the 24 and 15 credit hours requirements.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 13

March 1, 1980

MAR 5 1980



CLEMSON UNIVERSITY LIBRARY
MAR 5 1980

REVISED "NEWSLETTER" WILL NOT CARRY MINUTES

The next step in the continuing revision of the "Clemson Newsletter" will be to eliminate minutes of University committee and council meetings. The minutes in this issue are the last to be distributed in this manner. Significant actions, however, will be reported in news stories as they happen.

Full text of all minutes will be distributed to each office on campus to be filed in three-ring binders. It is anticipated that each office will keep a year's minutes on hand. Minutes will also be bound by the Office of the Vice President for Academic Affairs and filed in the Library as a permanent record.

As part of a continuing program to improve internal communications at the University, the "Newsletter" revision is aimed at giving faculty and staff more news and information on a more timely basis.

When the program is fully implemented, which will take several more months, the "Newsletter" will regularly contain more news and features about Clemson people, more timely information from University committees and councils, and more information about benefits and other personnel matters.

AGRICULTURAL EDUCATION

John H. Rodgers (Prof) has been selected by the USDA/FFA Coordinating Committee to participate as one of three writers from agricultural education to develop and introduce a model college level community development curriculum for teacher educators to use in preparing teachers of vocational agriculture. This assignment will necessitate at least three planning

and writing sessions of three to four days each in Washington. The project is funded by a grant from the U. S. Office of Education.

ARCHITECTURAL HISTORY AND VISUAL STUDIES

Robert England (Adjunct Prof) has recently published The Baroque Ceiling Paintings in the Churches of Rome: 1600-1750, A Bibliography (Hildesheim, West Germany: Georg Olms. Verlag, 1979), the bibliography for a definitive study in progress for the past eight years.

Tom McPeak (Assoc Prof) was selected as one of four jurors for the National Graphics Competition held Jan. 15. The competition is open to member institutions of higher education throughout the United States. These schools are invited to enter artwork created to advertise events for activities programs on their campuses.

Sam Wang (Assoc Prof) served as judge for the photography competition of the magazine 1980 Mockingbird, a student literary and arts magazine published by the East Tennessee State University Press, 1980.

ARCHITECTURAL STUDIES

Richard Norman (Assoc Prof), as chairman of the South Carolina AIA Honors and Awards Committee, served as professional advisor to the Jury for the State Honor Awards Program. The Jury, held in Chicago Jan. 15, was chaired by Walter Netsch, F.A.I.A., principal of the firm of Skidmore, Owings and Merrill. The Honor Awards, recognizing outstanding design achievements in architecture, will be presented at the AIA Convention in Columbia March 20-22.

ANIMAL SCIENCE

The following presented papers at the Southern Section American Society of Animal Science, Hot Springs, AR, Feb. 3-6:

--"Chopped Corrugated Boxes and Monensin in Growing-Finishing Rations for Steers," W. D. Stidham (Grad Res Asst), J. N. Williams II (Prof), R. L. Edwards (Prof) and G. C. Skelley (Prof).

--"Fermentation of Caged Layer Waste with Dry Feeds," M. D. Grotheer (Grad Teaching Asst), D. L. Cross (Assoc Prof), J. F. Welter (Assoc Prof, Poultry Sci) and W. J. Caldwell (Grad Res Asst).

--"Feedlot Performance of Crossbred Steers Fed High Silage Diets," W. J. Caldwell, Prof. Cross, C. E. Thompson (Assoc Prof), Prof. Skelley and L. W. Grimes (Asst Prof, Exp Stat).

--"Feedlot Performance of Red Poll Sired Steers from AxA, HxA, CxA, FxA, and SxA Dams," W. J. Caldwell, Prof. Thompson, Prof. Skelley and Prof. Grimes.

--"Hormonal Responses to FSH and LH Challenges in Peripubertal Angus and Santa Gertrudis Bulls," P. I. Osborne (Grad Teaching Asst), J. R. Hill Jr. (Supt of Edisto Exp Sta), T. Gimenez (Asst Prof) and D. M. Henricks (Prof, Food Sci and Biochem).

--"Effects of Spraying Hot Pork Carcasses with a Solution of Sodium Hypochlorite," Gonzalo Fandino (Former Grad Res Asst), Prof. Skelley and R. F. Wheeler (Prof and Hd).

--"Testicular Growth in Performance Tested Bulls," P. I. Osborne, H. W. Webster (Prof), Prof. Grimes and J. R. Hill.

--"Reproductive and Productive Performance of 2-Year-Old Cows on Legume and Grass Hay," M. DeLuca (Former Grad Res Asst), W. P. Earle (Grad Res Asst) and Prof. Thompson.

--"Mini-Pens for Early Weaned Pigs," K. E. Hawkins (Former Grad Res Asst), D. L. Handlin (Assoc Prof) and Prof. Grimes.

--"Efficacy of Ronnel® for Increasing Weight Gain of Steers on Pasture," Prof. Cross, W. J. Caldwell, S. L. Moore (Assoc Prof, Animal Path), Prof. Wheeler and M. D. Grotheer.

Prof. C. E. Thompson presided over the Breeding and Genetics I Group meeting at the Southern Section of American Society of Animal Science, and J. R. Diehl (Assoc Prof) presided over the Physiology III Group meeting.

Richard G. Godbee (Asst Prof) presented two talks at the International Stockman's School in Tucson, AZ, in January: "Energy Sources for Horses" and "Non-Protein Nitrogen Utilization by the Equine."

CHEMISTRY AND GEOLOGY

Villard S. Griffin Jr. (Prof) presented a seminar, "Classical Migmatites and Related Finnish Geologic Phenomena," before the faculty and students of the Geology Department at the College of Charleston Feb. 15.

CIVIL ENGINEERING

Subhash C. Anand (Prof) had a paper, "Constitutive Relations and Solution Schemes in Plastic Analysis," published in the Journal of the Engineering Mechanics Division, ASCE, Vol. 106, No. EM1, Proc. Paper 15188 February 1980, pp. 21-36. This paper was presented last year in April at the ASCE Convention and Exposition held at Boston, MA.

Russell H. Brown (Assoc Prof) received a grant from Hydrozo Coatings Company to evaluate nonpetroleum-based clear water repellent coatings on masonry walls. The initial funding in the amount of \$5,000 will support the project for approximately one year. The effects of rain intensity, wind pressure and continued exposure to the elements will be established experimentally.

ELEMENTARY AND SECONDARY EDUCATION

Margaree S. Crosby (Asst Prof) conducted a workshop at the Jan. 26 meeting of the Pee Dee Council of the International Reading Association at Latta on "Utilizing the Language Experience Approach to Enhance Student Motivation."

ENGINEERING TECHNOLOGY

Carl R. Lindenmeyer (Assoc Prof) gave a presentation, "Staffing Control through Work Sampling," at the Naval Training Center in Orlando, FL, Feb. 8. On Feb. 12, he gave a presentation at the Eleventh Annual Conference of the Health Services Division of the American Institute of Industrial Engineers entitled "Computer-aided Work Sampling." The conference was held in Lake Buena Vista, FL.

ENVIRONMENTAL SYSTEMS ENGINEERING

A. W. Elzerman (Asst Prof) presented an invited lecture, "Atmospheric Inputs of Pollutants to Natural Waters," at the Department of Environmental Sciences and Engineering, UNC-Chapel Hill, Feb. 11.

L. G. Rich (Prof) is the author of a new book, Low-Maintenance, Mechanically-Simple Wastewater Treatment Systems, just published by McGraw-Hill Book Company.

EXTENSION HOME ECONOMICS

Janice R. McRee (Asst Prof) served as chairman of the 1979 National Expanded Food and Nutrition Education Program Workshop held in Denver, CO, Nov. 5-9. State level representatives from all 50 states and Puerto Rico participated.

HISTORY

Charles H. Lippy (Asst Prof) reviewed "Dear Master": Letters of a Slave Family, ed. Randall M. Miller, in Religious Studies Review, VI (January 1980), p. 78, and The Electric Church, by Ben Armstrong, in the same journal, p. 79.

D. G. Paz (Vstg Asst Prof) published a review of Virginia Driving Hawk Sneve, That They May Have Life: The Episcopal Church in South Dakota, 1869-1976, in Nebraska History, LX (1979), 626-29.

Richard M. Golden (Asst Prof) published an article, "The Bibliothèque de la Société de Port-Royal," in French Historical Studies, XIII (Fall 1979).

Joseph L. Arbena (Assoc Prof) has published a review of Charles W. Bergquist, Coffee and Conflict in Colombia, 1886-1910 (Duke University Press) in The Americas, XXXVI (Jan. 1980).

HOUSING OFFICE

Almeda R. Boettner, associate director of housing, attended the spring meeting of the South Carolina College Personnel Association in Hilton Head Feb. 14-16. This meeting was held in conjunction with the South Carolina Personnel & Guidance Association.

Manning N. Lomax, director of housing, attended the Conference of the Southeastern Association of Housing Officials Feb. 20-23 in New Orleans, LA.

MATHEMATICAL SCIENCES

John D. Fulton (Prof and Hd) and Stanley M. Lukawcki (Prof), through the department's program of speaking to high school mathematics students, were invited to visit Middleton High School in Charleston and East Cooper High School in Mt. Pleasant Feb. 11. Prof. Fulton presented a talk to the students at both schools on "What Mathematicians Do--Operations Research," and Prof. Lukawcki spoke on the subject "Career Opportunities in the Mathematical Sciences." They spoke with over 300 students along with the mathematics faculty of the schools.

John Kenelly (Prof) gave a talk to the mathematics students at Berea High School Feb. 15. He gave a presentation to the mathematics teachers in Florence District One at their in-service day Feb. 18.

Prof. Lukawecki served as a member of the NASDTEC (National Association of State Directors of Teacher Education and Certification) visiting committee to evaluate the teacher education programs at Furman University Feb. 4-5. He was responsible for evaluating the mathematics program.

Prof. Lukawecki is serving on an ad hoc committee to discuss the feasibility of creating a statewide association of developmental educators. The committee has met in Columbia Jan. 10 and Jan. 31.

Douglas R. Shier (Adj Assoc Prof) has published a paper with P. Domich and J. Lawrence entitled "Generators for Discrete Polynomial L₁ Approximation Problems" in Journal of Research-National Bureau of Standards, Volume 84, pp. 455-488, 1979.

Herman Senter (Asst Prof) presented a paper, "Uses of the NACD Nationwide Outdoor Recreation Inventory," at the National Association of Conservation Districts Annual Convention in Houston Feb. 12. The paper was a result of joint research with Robert McLellan (Prof) of the Recreation and Park Administration Department.

Prof. Senter presented a paper, "Private Sector Outdoor Recreation Data: A State-by-State Analysis," at the Southeastern Recreation Research Council Annual Meeting in Asheville, NC, Feb. 18.

MECHANICAL ENGINEERING

Tah-teh Yang (Prof) received a grant of \$29,346 from David W. Taylor Ship R&D Center, U. S. Navy for a study on "Analytical Investigation of High Performance, Short, Thrust Augmenting Ejectors." The project is scheduled for one year and began in February.

Prof. Yang will present a paper, "An Investigation of Vane-Island Diffusers at High Swirl," at the 25th Annual International Gas Turbine Conference in New Orleans, LA, March 11. M. A. Rayan (Vstg Asst Prof) is primary author and Prof. Yang is the co-author of the paper.

Prof. Yang presented a discussion in the Journal of Fluids Engineering, March issue, on a paper, "Inverse Design of Optimal Diffusers with Experimental Corroboration," by Gustave Hokenson.

NURSING

At the January 24, 1980, meeting of the Board of Nursing for South Carolina, the Baccalaureate Degree Program of the College of Nursing was granted continuing full accreditation. Full accreditation by the Board of Nursing for South Carolina has been continuous since the program was established.

PHYSICS AND ASTRONOMY

Raymond C. Turner (Assoc Prof), Frank H. Stout (Former Grad Stu) and T. Gary Trimm (Former Grad Stu) have published a paper, "ESR Studies of a Nitrogen Defect in Irradiated Potassium Azide," in Journal of Chemical Physics 70, 5358 (1979).

Philip B. Burt (Prof) had a paper, "Quantization of Solitary Waves," included in the proceedings of the International Symposium in Mathematical Physics held in Mexico City in January 1976.

Prof. Burt attended the conference on Quantum Chromodynamics held at the University of California, Irvine, Dec. 1-2. On this same trip Prof. Burt visited California Institute of Technology and the Jet Propulsion Laboratory for Scientific discussions.

PLANNING STUDIES

Glenn E. Varenhorst (Assoc Prof) presided at a two-day seminar designed to broaden understanding of planning and presented a lecture on "New Trends in Local Planning." The seminar was titled "Economic Development, Community Improvement, and Local Planning" and was sponsored by the S. C. State Budget and Control Board, Personnel Division, and Department of Planning Studies, College of Architecture,

Clemson University. It was held Jan. 24-25 in Charleston.

POLITICAL SCIENCE

Harold E. Albert (Prof) presented a paper, "Grantsmanship and Political Scientists," at the annual conference of the Georgia Political Science Association Feb. 1.

Michael Morris (Asst Prof) lectured recently to the students and faculty of the Royal Swedish Naval College on his research on Third World navies.

Stephen H. Wainscott (Asst Prof) presented a paper, "Trends in Georgia Public School Desegregation, 1967-1972," at the Georgia Political Science Association meeting in Atlanta Feb. 1.

PROFESSIONAL DEVELOPMENT

Thomas B. Maertens (Asst Prof, IM) is chairperson for a three-day seminar, "Assertiveness Training for Managers," to be held at the Ramada Inn in Greenville March 17-19.

Raymond Sawyer (Asst Prof, Engl) is lecturer for a two-day workshop, "Effective Public Speaking," to be held on campus March 18-19.

J. Michael McDonald (Asst Prof, IM) is lecturer for a one-day seminar, "Professional Development for Secretaries," to be held at the Clemson House March 19.

Claude S. Simpson Jr. (Instr, IM and Asst Dir) is chairperson for a two-day seminar, "Manager II: Beyond the Basics," to be held on campus March 24-25.

Hendrikus E.J.M.L. Van Bulck (Asst Prof, IM) is chairperson for a two-day seminar, "How to Take the Costly Guesswork Out of Shop Floor Control and Capacity Planning," to be held March 24-25 at the Ramada Inn in Greenville.

Robert W. Rouse (Assoc Prof, Acct and Fin) is chairperson for a three-day

seminar, "Finance and Accounting for Non-Financial Executives," to be held March 24-26 at the Ramada Inn in Greenville.

John J. Porter (Prof, Text) is co-chairperson for a one-day conference, "Energy Conservation Practices for Plant Engineers," to be held on campus March 27.

PSYCHOLOGY

Spurgeon Cole (Assoc Prof) is conducting a workshop through the Extension Service entitled "Behavior Modification Techniques for Controlling Weight Problems." The first of four workshops was held Feb. 12.

David Senn (Assoc Prof) and Rosemary Lowe (Asst Prof) recently completed the second of two workshops on program evaluation techniques, presented for staff members of South Carolina Community Mental Health Centers. The workshop was designed to provide training in methods of evaluating treatment and consultation to staff members and administrators of local clinics in the Anderson-Oconee-Pickens County areas.

RECREATION AND PARK ADMINISTRATION

G. Wesley Burnett (Asst Prof) has had the following published recently: "More Than Man's Best Friend: The Wolf's Domestication," Montana Outdoors 10 (November-December 1979): 27-28; "Inventory Recreation Potentials on Dispersed Tracts," Journal of Forestry 77 (December 1979): 765-768. (With David G. Conklin, Montana Department of Fish, Wildlife and Parks); Review of The Legal Sources of Public Policy by Jay A. Sigler and Benjamin R. Beede, Annals of the Association of American Geographers 69 (December 1979): 649-651.

Mike Ellerbrock (Instr) presented a paper he co-authored with James C. Hite (Prof, Ag Econ & Rural Soc) on "Gasoline Prices and Regional Tourist Activity: Problems of Identification" at the Seventh Annual Conference of the Midsouth Academy of Economists in Little Rock, AR, Feb. 14-16. They also published an article on "Factors

Affecting Regional Employment in Tourism in the United States" in the Journal of Travel Research, Volume XVII, No. 3, Winter 1980, pp. 26-33.

ZOOLOGY

John P. Wourms (Assoc Prof) was co-organizer of the First International Symposium on the Developmental Biology of Fishes held at the annual meeting of the American Society of Zoologists in Tampa, FL, Dec. 27-30. Prof. Wourms presented a symposium paper, "Viviparity: The Maternal-Fetal Relationship in Fishes." He also gave the concluding address, "Current Status and Future Directions of Research on Fish Development."

In the contributed paper sessions of the symposium, the following papers were presented:

--"Morphogenesis of the Yolk Sac Placenta in the Blue Shark, P. glauca," presented by Prof. Wourms and William Hamlett (Grad Stu).

--"Secondary Egg Envelope Pre-Patterning by Follicle Cells during Fish Oogenesis," by Danny Sponaugle (Grad Stu) and Prof. Wourms.

--"Maternal-Fetal Relationship in the Viviparous Cownose-Ray, Rhinoptera bonasus," by William Hamlett, Prof. Wourms and Joseph Smith (Virginia Inst. of Mar. Sci).

--"Structure, Function, and Evolution of Trophataeniae, Placental Analogues of Viviparous Fishes," by Julian Lombardi (Grad Stu) and Prof. Wourms.

Marc J. Zimmerman (Res Spec) presented a paper, "Applications of Chemical Equilibrium Calculations to Water Quality Investigations," at the first annual meeting of the South Carolina Aquatic Plant Management Society in Moncks Corner Sept. 13 and 14.

MINUTES OF THE COUNCIL OF ACADEMIC DEANS MEETING, DECEMBER 17, 1979

The Council of Academic Deans met Dec. 17, 1979, in 538 Nursing Building. In Dean Hurst's absence, Dean Willis called the meeting to order at 9 a.m. with the following persons present: Dean Chapman (for Dean Anderson), Dean McClure, Dean Landrith, Dean Wilcox, Dean Box, Dean Trevillian, Dean Cox, Dean Labecki, Dean Vogel, Dean Schwartz and Dean Reel.

The first matter discussed was the Graduate School Proposal regarding "Grades of D in Graduate Courses" which states "that effective August 15, 1980, a grade of D in a graduate course will produce a grade report and transcript reflecting no credit which will imply no quality points. That is, the grades of D and F will lead to the same result." Dean Schwartz explained the policy after which there was a motion and a second that it be approved. After a brief discussion the question was raised as to whether this policy would be geared to the student or to the course. Dean Schwartz clarified the point by stating that this policy would apply to all 600, 700 and 800 level courses; therefore, it would apply to an undergraduate student taking a graduate course, but would not apply to a graduate student taking an undergraduate course. The proposal was unanimously approved.

Dean Schwartz distributed information he had received from Dr. John Armstrong director of the S. C. Sea Grant Consortium, requesting proposals in Marine and Coastal Sciences, Engineering, Economics, Planning, Legal Analysis, Education and Advisory Services. Dean Schwartz requested that these proposals be submitted to him by not later than Jan. 9 so he could have them in Charleston by the Jan. 10 deadline.

A memorandum from David Fleming to Dean Hurst regarding "Classroom Assignments During the Sirrine Hall and Tillman Hall Renovations" was discussed. Several deans were of the opinion that the present system of assigning classrooms is less than satisfactory, and they feel the Scheduling Office should work more close-

ly with the deans in determining classroom needs. Dean Willis stated that he will check individually with each of the deans to determine their needs and will communicate these needs to Mr. Fleming.

Dean Landrith reported that the remodeling of Tillman Hall will soon become a reality and that care will be taken throughout the restoration to retain the original flavor of Tillman.

Dean Labecki announced that she is taking early retirement effective June 30, 1980.

Dean Morris Cox stated that he is still disturbed over the present system of giving a transfer student credit for D's if he subsequently makes a C or better in a sequential course. This policy goes back to an action by the "Deans and Directors of the Clemson Agricultural College" on August 15, 1949, and has been discussed at the June 11, 1979, and August 13, 1979, meetings of the Council of Academic Deans. A motion was made and seconded that a University policy be established that no D's be accepted for transfer except by examination. Discussion ensued regarding the "except by examination" clause, and it was decided to propose the establishment of a policy which states simply that "no grades of D will be accepted for transfer under any circumstances." The deans approved unanimously, and Dean Willis stated he would refer the matter to Dean Hurst for appropriate action.

Dean Morris Cox addressed the matter of student grievances and stated that a student has the right to see his final examination grade and to question that grade. The problem occurs when terminating faculty members fail to leave their grade books and examination papers with their department heads before leaving campus at the end of the year, and the student therefore does not have access to his grades. Dean Cox proposed that a departing faculty member be required to turn in his final exams and grade books to his department head before he can receive his final pay check. Dean Cox's proposal would apply only to faculty who are terminating their connection with the University;

continuing faculty would be unaffected. There was a lengthy discussion regarding the legality of such a requirement and it was Dean Cox's feeling that a faculty member's salary had not been earned until he had completed his obligations, and that turning in his final grades was one of these obligations. Someone suggested that this requirement could be made a part of the contract which must be signed by the faculty member. It was decided that the matter be referred to the University Legal Counsel in January or February for an opinion.

The meeting was adjourned at 10 a.m.

Respectfully submitted,

Annette H. Kesler

MINUTES OF THE UNIVERSITY LIBRARY COMMITTEE MEETING, NOVEMBER 26, 1979

Present: Ann W. Baxter, Becky F. Campbell, Sushma S. Ganguly, Jack C. McCormac, Syed S.H. Rizvi, Margit M. Sinka, Evelyn C. Voelker, Mabel Wynn, J. W. Gordon Gourlay

Visitors: R. W. Meyer, Edward F. Olive

In the absence of Chairman John V. Hamby, Edward F. Olive, a former chairman of the Committee, represented Dr. Hamby and presided.

1. Minutes of the meeting of Oct. 8 were approved.

2. Circulation of Periodicals

There was a discussion of the present library policy of circulating periodicals to faculty and graduate students for a period of three days. The original purpose of the policy was to permit the xeroxing of articles in departments where this xeroxing might be done free of charge to the individual, or done for .05 per copy. The latest issue of the journal is always retained in the library.

The library is running a survey to determine the actual use that is made of

periodicals checked out and will keep the University Library Committee informed of the results of this survey.

3. Mr. Meyer reported on a study of the application of automation to various aspects of the library operation. It will be a team study made up of outside consultants, members of the library staff; DAPS personnel, and others. It will be done over a period of 10 or 12 weeks, will determine needs, and should provide a blueprint of practical goals and objectives

and the cost factors involved in the various applications.

4. It is customary for the Committee not to hold meetings in December and January unless a meeting is called for a particular purpose. Time of the next regular meeting will be Monday, February 11, at 2:30 p.m. in the classroom on the ground floor of the library.

J. W. Gordon Gourlay, Secretary
University Library Committee

Calendar of Campus Events

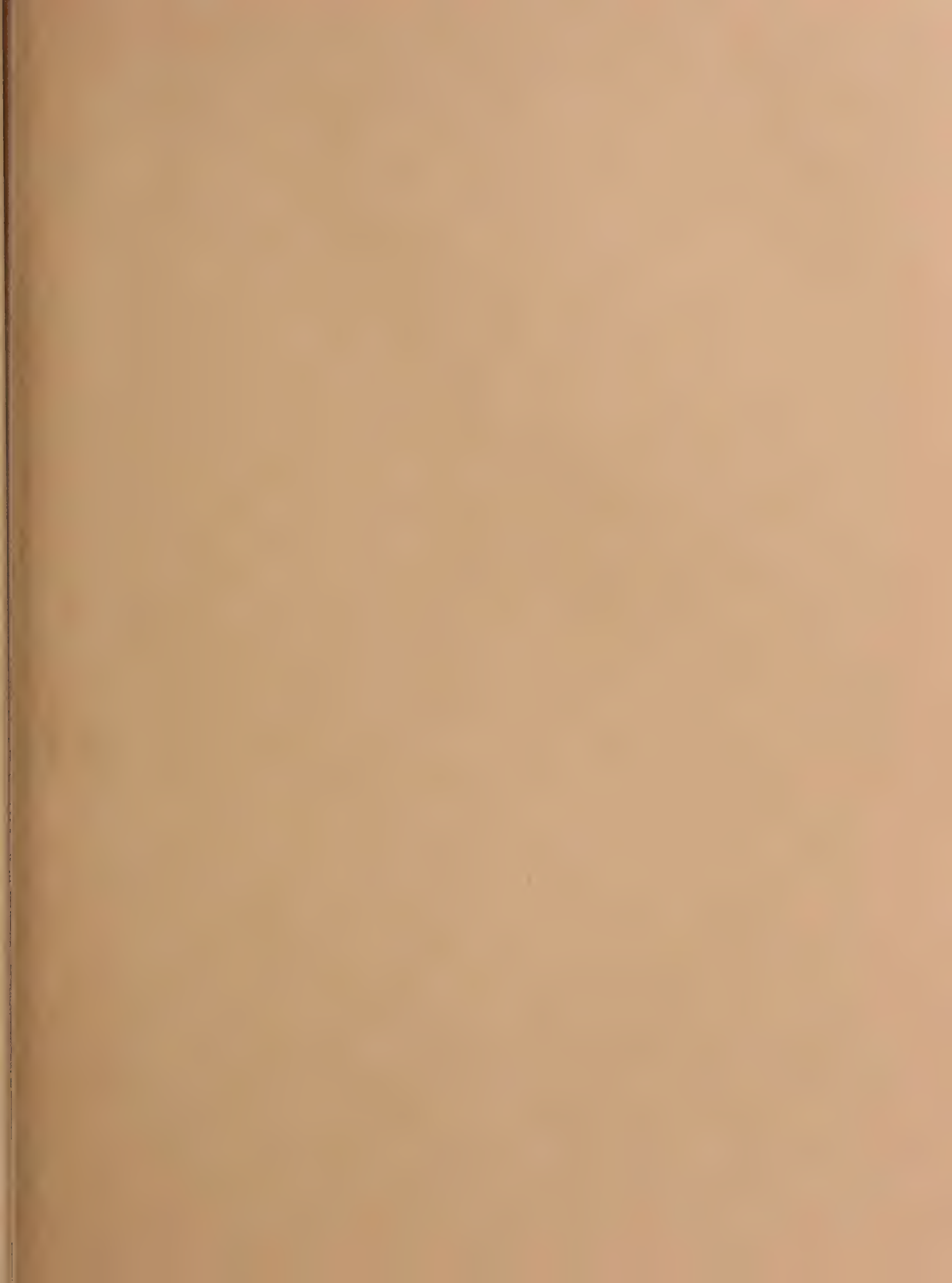
- 15-27 -- Art Exhibition: "South Carolina Arts Commission Show." An annual juried exhibition of art works by contemporary S. C. artists of all media. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m.-4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 18-19 -- Shortcourse: "How to Become a More Effective Speaker." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 19 -- Shortcourse: "Professional Development for Secretaries." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 24 -- Edgar's: Reader's Theatre, 8-9 p.m. Open to the public, no admission charge.
- 24-25 -- Shortcourse: "Manager II" for experienced and newly-appointed managers. Sponsored by Office of Professional Development, call 656-2200 for more information.
- 24-26 -- Shortcourse: "Finance and Accounting for Non-Financial Executives." Sponsored by Office of Professional Development, call 656-2200 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 24-29 -- Art Exhibition: Chris Hamilton and Sherb Naulty Photograph Display. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 24-30 -- Videotape: "The Kennedys." Sponsored by University Union, loggia, shown several times daily.
- 24 -- Classes resume after spring holidays.
- 25 -- 1980 Continuing Education Center classes begin. Call 654-2139 for more information.
- 25-26 -- Shortcourse: "Vibrations and Noise in Machinery." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 25-27 -- Baseball: Ohio State, here, 3 p.m.
- 26 -- Backpacking Seminar. Sponsored by University Union, details and sign up at Union Information Desk.
- 26 -- Edgar's: "The Woman's Games" and "Voyage of the Hummingbird" brown bag special. Sponsored by University Union, Edgar's, noon - 1 p.m.
- 26 -- Film: "Stroszek" by Werner Herzog. Sponsored by College of Architecture in conjunction with the Student Chapter/ American Institute of Architects, Lee Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 26-27 -- Coffeehouse: "Rick Dixon." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 27 -- Shortcourse: "Energy Conservation Practices for Plant Engineers." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 28 -- Performing Artist Series: The National Theatre of the Deaf presents "The Wooden Boy," an adult's retelling of Pinocchio. Sponsored by University Union, Daniel Auditorium, 8 p.m. Open to the public, \$1.50 admission charge.
- 28 -- Film: "Cousin, Cousine" and "Every Man for Himself." Sponsored by Five Directions Cinema, 200 Hardin Hall, 7 and 9 p.m. Tickets are \$2.50. Call Jeff Jeske at 656-3221 for more information.
- 28-29 -- Edgar's: "Applewood." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required, 50¢ admission charge.
- 29-30 -- Spring Backpacking Trip. Sponsored by University Union, details and sign up at Union Information Desk by March 27.
- 30 -- Free Flick: "Summer of '42." Sponsored by University Union, YMCA Theater, 9 p.m. University I.D. required, no admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 31 -- Lecture: "The Place of Art in the World of Architecture" by Donald Thalacker. Sponsored by College of Architecture, Lee Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 31-4/1 -- Baseball: Howard, here, 3 p.m.
- 31-4/5 -- Art Exhibition: Photo exhibit by Richard Walkup. Sponsored by University Union, Union Gallery. Open to the public, no admission charge.
- 31-4/6 -- Videotape: "Request Library." Sponsored by University Union, loggia, shown several times daily.



PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

NEWSLETTER

INFORMATION FOR THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

Vol. 19 No. 14

March 15, 1980



*The Board of Trustees
faculty and staff
students and alumni of
Clemson University
cordially invite you to attend
the inauguration of
Dr. Bill L. Atchley
ninth president of the University
Friday, the eighteenth of April
nineteen hundred and eighty
at two o'clock in the afternoon
Littlejohn Coliseum
Clemson, South Carolina*

*RJVP
By March 22*

faculty, staff and students to attend inaugural ceremonies for President Bill L. Atchley on Friday, April 18.

Dean of the University Victor Hurst said that all classes on that day will be cancelled as of 12:05 p.m. The inaugural ceremony will begin at 2 p.m. in Littlejohn Coliseum.

Also approved was a cabinet recommendation that University staff members who wish to attend be allowed to do so, provided all offices and working facilities are manned sufficiently to carry out their normal activities. These arrangements will be left up to the various department heads.

Inauguration day for Clemson's ninth president will begin with a luncheon for the delegates from various universities and colleges and learned societies, followed by the inauguration, an outdoor reception and an inaugural subscription dance at 8 p.m. in Fike Recreation Center. Tickets for the dance may be purchased at the Alumni Center.

FACULTY AND STAFF INVITED TO INAUGURATION

All Clemson University faculty and staff are invited to attend the inauguration of our ninth president, Bill L. Atchley, Friday, April 18. The ceremony will begin at 2 p.m. in Littlejohn Coliseum.

Immediately following the inauguration ceremony, a reception will be held at Jervey Meadows, the area behind Jervey Athletic Center near the baseball field. In case of inclement weather, the reception will be held at the Coliseum.

CLASSES SUSPENDED INAUGURATION AFTERNOON

The University Cabinet has approved recommendations which will make it possible for

INAUGURATION CONCERT TO HONOR ATCHLEY

On Thursday, April 17, the Clemson University Concert Band will present an inauguration concert honoring President Bill Atchley. The concert will be held in Littlejohn Coliseum at 8 p.m., and all faculty and staff are invited to attend. There will be no admission charge.

The concert opens with an overture to Martha by Friedrich von Flotow and proceeds with "Danzon" from the ballet Fancy Free by Leonard Bernstein. Other selections include a concerto in B flat for two trumpet soloists and the band by Antonia Vivaldi, arranged by band director John H. Butler; three dances from the ballet Gayne by Aram Khachaturian; and selections from Oklahoma by Richard Rodgers.

In addition, the band will perform original band compositions by Claude T. Smith and Gustav Holst, a Sousa march and the traditional Clemson University Alma Mater and Tiger Rag.

HISTORIC DOCUMENTS FOUND IN TILLMAN

When Bill Thompson and Steve Lee of Clemson's accounting office were called by workmen last week to come clean out some old financial records hidden away in Tillman Hall (now undergoing renovation), they put on their work clothes and went.

They expected to find old accounting ledgers, travel expense vouchers, letters. They hoped to find a money bag stuffed with old bills or gold coins.

But the real treasure they found has surprised and delighted the whole Clemson community.



The cavity above the vault, where the documents were hidden for perhaps 75 years or more, measures just five feet at the highest point.

Among the expected ledgers and correspondence files, they found authentic historical documents dating back to the John C. Calhoun era and signed by two U. S. Presidents. Among them:

--The original documents appointing Calhoun secretary of war (dated 1817 and signed by President James Monroe and John Quincy Adams, secretary of state) and secretary of state (signed by President John Tyler in 1844).



Bill Thompson holds one of the rare finds, an 1817 document certifying John C. Calhoun's appointment as secretary of war.

--A hand-written note, signed by Calhoun, accepting the War Department appointment and pledging to uphold the constitution and to "faithfully execute the trust committed to me as Secretary."

--The official confirmation of Calhoun's election by the Congress in 1825 as Vice President of the United States. It's signed by John Gaillard, president of the Senate.

--Two hand-lettered tunes apparently penned by Thomas Green Clemson, Calhoun's son-in-law and the University's benefactor, called "Johnston's Polka" and "Anna's Polka."

--A leather-bound volume containing the hand-written minutes of every regular faculty meeting at Clemson Agricultural College from Oct. 13, 1897, to Dec. 5, 1900.

--Several 8 x 10 glass negatives of photos of campus buildings.

The tunes by Clemson are so far the most intriguing find to historian E. M. Lander Jr.

"I knew Clemson was a musician--in addition, of course, to being a scientist, a geologist, a painter and a diplomat," Lander said. "I've followed his life

pretty carefully but I never knew he composed music, too."

lander and members of the University's rare possessions committee, headed by Stan Nicholas of the development office, are evaluating the material now.

Nicholas said professional help will be obtained to restore and preserve the historic documents, after which the committee will decide on how they should be exhibited.



Steve Lee shows where the documents were found -- through a hatchway in the ceiling of a metal vault in what used to be the college treasurer's office in Tillman Hall.

SELF-STUDY COMMITTEE CHAIRMEN NAMED

The Steering Committee for the University's Self-Study has named the chairmen of the

12 committees which will carry out much of the work toward renewing accreditation by the Southern Association. They are:

Purpose - Robert S. Lambert (History)

Organization and Administration -

Russell D. Shannon (Economics)

Educational Program - Ida C. Briscoe (Education)

Financial Resources - Paul K. Gable Jr. (Extension Administration)

Faculty - Spurgeon N. Cole (Psychology)

Library - Donald B. Stafford (Civil Engineering)

Student Development Services - Joseph L. Young (Architecture)

Physical Plant Resources - Douglas W. Bradbury (Mechanical Engineering)

Special Activities - James K. Johnson (Mechanical Engineering)

Graduate Program - Elmer E. Burch (Industrial Management and Mathematical Sciences)

Research - Donald R. Pitts (Mechanical Engineering)

Planning for the Future - Thomas B. Yandle (Economics)

As many as 75 committees involving about 600 committee members may eventually be at work between now and the end of the Self-Study in April 1981.

COUNSELING PSYCHOLOGIST TO BE LISTED IN "WHO'S WHO"

John R. Anderson, counseling psychologist with the University Counseling Center, has been selected for listing in the 1980 edition of "Who's Who in the South and Southwest."

Anderson has been a member of the Clemson staff since 1964. He was previously with Virginia Polytechnic Institute as associate director of counseling and placement for 14 years.

Born at Bluefield, Va., Anderson earned his bachelor's degree at Roanoke College (1938), the M.S. degree in sociology and psychology at VPI (1951) and did doctoral work at the University of Virginia.

Anderson's biographical sketch will appear in the 17th edition of the publication.

He will have another honor come his way when he addresses the national convention of the American Personnel and Guidance Association in Atlanta on March 29. His subject will be "The Counselor As Educator."

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

The following faculty members participated in the annual meetings of the Southern Association of Agricultural Scientists held at Hot Springs, AR, Feb. 3-6:

M. S. Henry (Assoc Prof) delivered a paper, "The Impact of New Industry on Country Government Property Tax Revenue."

E. L. McLean (Prof) presided over the Rural Sociology Section of SAAS. He also delivered a paper, "Community Assessment Research: Views from Youth and Household Respondents." The paper was co-authored by Ernest Bowen (Grad Asst).

The following faculty members participated in the annual meetings of the Southern Agricultural Economics Association held at Hot Springs, AR, Feb. 3-6:

J. C. Hite (Prof) served as a discussant of a paper, "Energy Problems and Alternatives: Implications for the South."

J. S. Lytle (Prof) chaired a session, "Field Crop Price Analysis."

S. E. Miller (Asst Prof) presented a paper, "Lead-Lag Relationships between Pork Prices at the Retail, Wholesale and Farm Levels."

W. A. Tinsley (Prof) gave a paper, "The Transfer of Microcomputer Technology in South Carolina," at a Symposium on Programmable Calculators and Microcomputers in Agricultural Decision Making in Hot Springs Feb. 7.

Prof. Tinsley also has an article,

"Important Lessons You Can Learn from Estimating Your Federal Income Taxes," in the February issue of Creative Computing.

AGRICULTURAL ENGINEERING

Agricultural engineers participating in the Southeast Regional meeting of the American Society of Agricultural Engineers in Hot Springs, AR, Feb. 3-5 were J. M. Bunn (Prof), E. E. Strickland (Ag Sci Asst) and W. R. Lea (Grad Stu).

Papers presented at the meeting were:

--"Comparative Loading Capacity and Purchase Cost for Various Commercial Tobacco Bulk Curing Barns" by Mr. Strickland and J. G. Alphin (Prof).

--"Clemson University's Pee Dee Experimental Station Tobacco Bulk Curing Energy Investigation Program" by Prof. Alphin, J. B. Pitner (Supt and Prof, Agron and Soils) and F. C. Patten (Instr).

--"Simulated Natural Air Drying in South Carolina" by Mr. Lea and Prof. Bunn.

Prof. Bunn is a regional participant in a new research project on "Energy Reduction for On-Farm Processing of Agricultural Products."

W. H. Allen (Assoc Prof) is a participant in a new regional project, "Optimizing Efficiency of Energy Utilization in Agricultural Housing Systems."

CHEMICAL ENGINEERING

Stephen S. Melsheimer (Assoc Prof) presented an invited seminar to the Georgia Tech Department of Chemical Engineering Feb. 4 on "Donnan Dialysis--A Continuous Ion Exchange Process."

J. M. Haile (Asst Prof) presented an invited seminar Feb. 7 to the faculty and graduate students of the Chemical Engineering Department at the University of Florida on "Computer Simulation of Liquid n-Alkanes."

CHEMISTRY AND GEOLOGY

J. W. Huffman (Prof) visited the University of Alabama in Birmingham Feb. 27 and presented a seminar, "Recent Studies in the Synthesis of Higher Terpenes."

H. G. Spencer (Prof) presented a lecture, "Performance of Hyperfiltration Membranes," at the Polymer Materials and Interfaces Laboratory, Virginia Polytechnic Institute and State University, Blacksburg, VA, Feb. 20.

CIVIL ENGINEERING

Ben Sill (Assoc Prof) and John Fisher (Assoc Prof) have been awarded a two-year (\$103,800) grant supported by the National Science Foundation, Division of Atmospheric Sciences. The project is titled "Development of a New Vapor Budget Technique for Measurement of Evaporation." This will be primarily a field study to be conducted on lakes Hartwell and Keowee and will involve the use of tethered balloon sondes for the measurement of atmospheric properties.

Donald B. Stafford (Assoc Prof) has been elected to serve a two-year term on the District 5 Board of Directors of the Institute of Transportation Engineers (ITE). District 5 is a regional organization of ITE that covers the 11 southeastern states and Puerto Rico. At the recent meeting of the District 5 Board of Directors, Prof. Stafford was chosen to serve as vice chairman of the Board during 1980.

Herbert W. Busching (Prof and Hd) has received a \$5,000 grant for a characterization study of asphaltic concrete. The grant support for laboratory work was made by Hercules Incorporated, Wilmington, DE.

DAIRY SCIENCE

George E. Gramling (Prof) was chairman of a session on future direction and needs at the state DHIA Presidents Conference in Dallas, TX, Jan. 17-18. He also was

a member and participated in the National DHIA Presidents Committee on long-range planning in Dallas Jan. 16.

Prof. Gramling presented a paper on the role of Extension in developing management systems in DHIA at the National DHIA Management Seminar held in Atlanta, GA, Feb. 7-8.

ECONOMICS

Russell Shannon (Prof) published an article, "How Price Controls Aggravate Inflation," in The Clemson University Textile Marketing Letter, XV (February, 1980, 1,5).

Richard McKenzie (Prof) has published the following articles: 1) "Irrational Politics: Nixon's Re-election Committee," Public Finance Quarterly, Winter 1980, with Bruce Yandle; 2) "Where is the Economics in Economics Education? A Reply," Journal of Economic Education, Fall 1979, in a section of the journal dealing with the article in question; 3) "Entitlements and the Theft of Taxation," Reason Papers, Winter, 1980; 4) "The Cost of Voting: Its Fiscal Impact on Government," Public Choice, Fall 1979.

Holley Ulbrich (Prof) gave two seminars on "Current Economic Issues and Their Impact on the Consumer" for Riegel Textile employees Jan. 24 in Ware Shoals.

Prof. Ulbrich also spoke to ELECT, a minority leadership program in Greenville Feb. 5 on the topic of "Inflation Causes, Consequences and Cures."

ENGINEERING TECHNOLOGY

Daniel L. Ryan (Assoc Prof) has received notification that his monograph, "Computer-Aided Kinetics for Machine Design," has been accepted for publication by Marcel Dekker, Inc.

ENGLISH

Sterling Eisiminger (Asst Prof) published "The Consequences of Error" in National Forum, 60, No. 1 (1980), 37-8.

David Tillingshast (Asst Prof) published "Retirement," a poem, in SCETC Newsletter, 5, No. 4 (1980), 22. The same issue also contained a reprint of "The City Life." Prof. Tillingshast has also published "The Whippoorwill" and "Women Hoping for Rain," two poems, in The Southern Review, 16, No. 1 (1980), 166-67.

FOOD SCIENCE

Reginald A. Gallop (Vstg Prof) presented a seminar on "The Future of Agriculture" at the University of Manitoba, Canada, March 10.

The following papers were presented at the Southern Association of Agricultural Scientists, Food Science & Technology Meetings held Feb. 4-6 in Hot Springs, AR:

--Syed S. H. Rizvi (Asst Prof) and David Price (Res Spec), "Mathematical Modeling of L-Ascorbic Acid Retention in Freeze-Dried Potatoes as a Function of Packaging Parameter."

--James C. Acton (Prof) and Louise Wicker (Grad Res Asst), "Absence of Peroxidase Enzyme Activity in Blue Crab (*Callinectes Sapidus*) Tissue."

--Robert F. Borgman (Prof) and Steven Lightsey (Res Spec), "Etiology of Adolescent Hypertension in South Carolina: Progress Report."

--Denis M. Medeiros (Grad Res Asst), "A Possible Physiological Uptake Mechanism of $\text{CH}_3^{203}\text{HgCl}$ by a Lower-Food-Chain Organism, the Marine Bloodworm, Glycera dibranciata."

Kurt Ladenburg (Vstg Prof) will present a paper, "The Pros and Cons of Production of Ethanol by Fermentation for Fuel," at the American Institute of Chemical Engineers (joint engineering meeting) in Charlotte, NC, March 20.

Prof. Borgman had a recent publication, "Dietary Fiber May be a Deficient Ingredient in the American Diet," in the Agri-Search (SC Ag Exp Sta) 1:8-10.

The Food Science and Microbiology departments will sponsor a joint seminar by Dr. D. W. Thayer who is presently manager of Applied Biology, NSF, Washington, DC, to speak on the "Influence of Substrate on Amino Acid Profile and Macromolecular Composition of Bacteria" March 31-April 1 in Room 1 of Kinard Hall at 4 p.m.

HISTORY

Leonard Greenspoon (Asst Prof) presented a paper, "Crimes and Punishments: Joshua 7 as Literature," at the annual meeting of the South Carolina Academy of Religion Feb. 23 at the University of South Carolina.

Charles H. Lippy (Asst Prof) was elected vice-president of the South Carolina Academy of Religion at the same meeting.

HISTORY AND VISUAL STUDIES

John T. Acorn (Prof and Hd) had a one man exhibition of his recent sculpture at Winthrop College from Jan. 15 to Feb. 15. He delivered a guest lecture in the Visual Arts Department Feb. 15 at the conclusion of the exhibition.

Prof. Acorn also served as a juror of work by South Carolina artists at The Gallery, Hilton Head Island. The exhibition was entitled "Southern Stars" and was held Feb. 10. On Feb. 16 he juried the 30th Artists Guild of Columbia Annual Spring Show at Columbia College, Columbia.

HOME ECONOMICS

Veronica Carmack (Assoc Prof), president of the S.C. Home Economics Association, presided over the Annual Convention Feb. 14-16 at the Carolina Inn in Columbia. Special activities included a reception for legislators and educators Feb. 13. The reception was sponsored by the S. C.

Home Economics Association and the S. C. Home Economics Roundtable.

Prof. Carmack has served for two years as chairman of the S.C. Home Economics Roundtable. The Roundtable is composed of home economics leaders from all institutions of higher education and other groups who promote home economics activities in South Carolina. There are 13 member organizations.

HORTICULTURE

A. R. Mazur (Assoc Prof) was invited to present "A Summary of Turfgrass Research at Clemson" to the annual meeting of the United States Golf Association in Myrtle Beach Feb. 4.

INDUSTRIAL MANAGEMENT

Claude S. Simpson Jr. (Instr and Asst Dir of Prof Dev) addressed a business and industry group at Gainesville Junior College, Gainesville, GA, on the subject of "Continuing Education: What It Can Do For You" Jan. 29.

Thomas W. Zimmerer (Prof) addressed the Piedmont Chapter of the American Institute of Industrial Engineers Jan. 17 on the topic "Management's Opportunities and Problems in the 1980's."

Prof. Zimmerer also conducted a workshop, "Starting and Managing a Small Business," in Greenwood Feb. 14.

Hendrikus E.J.M.L. Van Bulck (Asst Prof) was a discussant at the SE AIDS Conference held in Orlando, FL, Feb. 20-22.

MATHEMATICAL SCIENCES

J. V. Brawley (Prof) gave an invited talk Feb. 25 to the SIAM Chapter at the University of Tennessee entitled "An Excursion into Applied Mathematics: Gambling."

Robert E. Haymond (Prof) was invited to speak to the February Science Seminar

Feb. 26 at Lenoir-Rhyne College in Hickory, NC. Prof. Haymond's subject was "Computational Mathematics--A New Boy on the Block."

John Kenelly (Prof) spent Feb. 22 working with the Mecklenburg County (NC) schools. He gave a talk, "Change's Change--The Trend Marker" to the 150 senior advanced placement students in the Charlotte schools and he gave an afternoon workshop for the AP teachers.

Prof. Kenelly gave talks to the mathematics students at Berea High School and Mauldin High School Feb. 15 and Feb. 29, respectively. On Feb. 18 he gave a presentation at the Florence School District's Inservice Day on "Mathematics You Will Need in College."

Stanley M. Lukawecki (Prof) has been named chairman of the Nominating Committee of the Mathematical Association of America's Annual Meeting of the Southeastern Section. The meeting will be held April 11 and 12 at Appalachian State.

MECHANICAL ENGINEERING

James G. Goree (Prof) visited the Materials Division at the NASA-Langley Research Center, Hampton, VA, Feb. 22 for discussions related to NASA-supported research and presented a seminar on fracture of composite materials.

MUSIC

A song by Edwin Freeman (Asst Prof) was performed at the regional conference of the College Music Society and the American Society of University Composers at Florida State University Feb. 7-9. The song is a setting of the poem "Billy Goat" by Robert W. Hill (Assoc Prof, English).

John H. Butler (Prof and Hd) performed selections from Gilbert and Sullivan operettas at a fund-raising dinner for the Greenville Savoyards at the Greenville Museum of Art Feb. 23.

NURSING

Dean Geraldine Labecki has been invited by Governor Richard Riley to participate in the first Governor's Conference on Equal Opportunity in Higher Education in South Carolina to be held March 28 in Columbia.

PLANNING STUDIES

Glenn E. Varenhorst (Assoc Prof) presided at a Seminar on Economic Development, Community Improvement, and Local Planning Feb. 14 and 15 in Columbia. Prof. Varenhorst made a presentation on "New Trends in Local Government Planning."

PROFESSIONAL DEVELOPMENT

John H. Marvin (Assoc Prof) is co-chairperson for a two-day conference, "Yarn Preparation for Shuttleless Looms," to be held on campus April 8-9.

A. Maureen O'Brien (Instr) is chairperson for a two-day seminar, "The Woman Manager," to be held at the Ramada Inn in Greenville April 8-9.

Robert Rouse (Assoc Prof) is chairperson for a two-day seminar, "The Job of the Controller," to be held at the Ramada Inn in Greenville April 14-15.

Hendrikus E.J.M.L. Van Bulck (Asst Prof) is chairperson for a three-day seminar, "Fundamentals of Maintenance Management for First Line Maintenance Supervisors," to be held at the Ramada Inn in Greenville April 14-16.

Thomas B. Maertens (Asst Prof) and J. Mike McDonald (Asst Prof) are co-chairpersons for the following seminars to be held on campus: "How to Delegate Effectively," April 14-15; "Managing the Unsatisfactory Performer," April 16-17; and "Communication and Interviewing Skills," April 18.

UNIVERSITY UNION

William Mandicott (Program Director) coordinated the 1980 National Graphics competition for the National Entertainment and Campus Activities Association held in January. Hosted by the University Union, member colleges throughout the United States competed for awards in graphics design. The Clemson University Union won two awards in this year's competition, one for the Performing Artist Series design and the other for Edgar's Niteclub logo.

Mr. Mandicott presented two educational sessions at this year's National Entertainment and Campus Activities Association National Convention in Washington, DC, Feb. 13-17: "A Juried Exhibition--The 1980 National Graphics Competition" and "Lecture Programming: The Basics."

Marcia Kennard Kiessling (Asst Program Director) served this past year on the National Entertainment and Campus Activities Association's National Travel Committee. She coordinated the Travel Resource Center for the National Convention in Washington, DC, which represents all states and parts of the world with its information. She also presented one educational session, "Travel Ideas and Interaction Session," and helped coordinate a special session on travel programming resources, "Travel Extravaganza."

Calendar of Campus Events

APRIL

- 1-10 -- Art Exhibition: "Ceramics" by Norman Schulman and "Drawings" by Ron Boozer. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 1 -- Concert: Larry Coryell. Sponsored by University Union, Clemson House Ballroom, 9 p.m. Open to the public, \$5 ticket price.
- 1-5 -- Art Exhibition: Photo exhibit by Richard Walkup. Sponsored by University Union, Union Gallery, 8:30 a.m. - 5 p.m. Monday - Saturday, noon - 5 p.m. Sunday. Open to the public, no admission charge.
- 1 -- Clemson Area Continuing Education continues. Call 654-2139 for more information.
- 2 -- Edgar's: Best Student Films. Sponsored by University Union, Edgar's, 7 and 9 p.m. University I.D. and proof of age required.
- 2-3 -- Coffeehouse: "Bobby Daye." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 3 -- Concert: Clemson University Chorus Tour Concert. Sponsored by Music Department, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 3 -- Baseball: Georgia Tech, here, 3 p.m.
- 3 -- Pool Exhibition: Jack White. Sponsored by University Union, Union Plaza. Call 656-2461 for more information.
- 3-4 -- Animation Art Sale. Sponsored by University Union, outside Palmetto Room of Union, 10 a.m. - 6 p.m. Open to the public.
- 4 -- Annual Initiation Banquet of the Clemson University Chapter of the Society of Sigma XI, Holiday Inn, 6:30 p.m. Speaker: Dr. Bill L. Atchley.
- 4 -- Edgar's: Clemson Players Benefit. Edgar's, 9 p.m., \$1 donation requested. Proceeds go to Cancer Fund.
- 4 -- Film: "Love and Anarchy." Sponsored by Five Directions Cinema, 200 Hardin Hall, 8 p.m. Open to the public, call 656-3221 for more information.
- 5 -- FFA Livestock Judging: Future Farmers of America State Contest. Co-sponsored by Department of Agricultural Education and Department of Animal Science, brick barn across S.C. 76 from Tri-County TEC, 11:45 a.m. - 3:30 p.m. Open to the public, no admission charge.
- 5 -- Little International Livestock Show. Events include showmanship of beef cattle, swine, sheep and horses. Sponsored by Animal Science Department and Block and Bridle Club, brick barn across S.C. 76 from Tri-County TEC, 9:30 a.m. - 5 p.m. Participation open to college students and 4-H and FFA members. The public is invited, no admission charge.
- 5 -- Baseball: North Carolina, here, 2 p.m.
- 5 -- Bike Trip on the Blue Ridge Parkway. Sponsored by University Union, call 656-2461 for more information.
- 6 -- Baseball: N.C. State, here, 2 p.m.
- 6 -- Free Flick: "Jesus Christ Superstar." Sponsored by University Union, YMCA Theater, 8 p.m. No admission charge with University I.D.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 7 -- Spanish Film: "La Caraba." Sponsored by Languages Department, 315 Daniel Hall, 7:30 p.m. Open to the public, no admission charge.
- 7 -- Baseball: Francis Marion, here, 3 p.m.
- 7-13 -- Videotape: "Janis Ian." Sponsored by University Union, loggia, shown on request.
- 8 -- Clemson Area Continuing Education continues. Call 654-2139 for more information.
- 8-9 -- Workshop: "Yarn Preparation for Shuttleless Looms." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 9 -- Honors and Awards Day. Classes suspended at noon.
- 9 -- Air Force and Army ROTC Honors and Awards Ceremonies. Sponsored by Aerospace Studies and Military Science departments, Daniel Hall, 4 p.m. Open to the public, no admission charge.
- 9 -- Brown Bag Special: "Sailing--Do It Right" and "Three Little Woodpeckers." Sponsored by University Union, Edgar's, noon - 1 p.m.
- 9-10 -- Coffeehouse: "Southern Select." Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 10-11 -- Workshop: "Data Communications." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 11-18 -- Art Exhibition: "Architectural Thesis and Terminal Project Reviews." Daily reviews of projects representing the culmination of five to six years of study in the programs of the College of Architecture. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 11 -- Engineering Open House. More than 3,000 high school students will be on campus for demonstrations of Clemson student projects in all areas of engineering. Sponsored by College of Engineering, Riggs, Olin, Earle and Lowry halls, 9 a.m. - 4:30 p.m. Open to the public, no admission charge.
- 11 -- Films: "Fireman's Ball" and "Man on the Roof." Sponsored by Five Directions Cinema, 200 Hardin Hall, 7 and 9 p.m. Open to the public, call 656-3221 for more information.
- 12 -- Workshop: "Assessment of the Aged." Sponsored by Continuing Education Department of College of Nursing. Open to licensed practical nurses, preregistration required. Call 656-3078 for more information.
- 12 -- Whitewater Rafting. Sponsored by University Union, call 656-2461 for more information.
- 13 -- Free Flick: "Play Misty for Me." Sponsored by University Union, YMCA Theater, 8 p.m. No admission charge with University I.D.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 14-15 -- Workshop: "How to Delegate Effectively." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 14-19 -- Play: "The Night Thoreau Spent in Jail" by Jerome Lawrence and Robert E. Lee. Presented by the Clemson Players, Daniel Hall Auditorium, 8 p.m. Open to the public, no admission charge.
- 14-15 -- Baseball: South Carolina, here, 3 p.m.
- 14-20 -- Videotape: "Muhammed Ali: A Portrait." Sponsored by University Union, loggia, shown on request.

WEPR Highlights

South Carolina Educational Radio Network programs produced by Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg; WSCI 89.3 FM, Charleston; and WMPR 88.1 FM, Sumter.

- Weekdays -- MORNING EDITION, 6 a.m., a news and features magazine produced by National Public Radio with contributions from Clemson University, the University of South Carolina, and WSCI, Charleston.
- DRIVETIME, 4:30 p.m. Monday - Thursday, a news, music and features magazine produced by Jim Barnhill.
- Sundays 6, 13 -- WOMEN THEMSELVES, 6 p.m., Charlotte Holt.
- Mondays 7, 14 -- A LITTLE NIGHT MUSIC, 7 p.m., Bill French. (7) "Welcome Sweet Springtime," (14) "My Kind of Town."
- Tuesdays 1, 8 -- WOMEN THEMSELVES (repeat), 3:30 p.m.
- THE OLD AND NEW WORLDS OF WORDS, 4 p.m., John Idol and Jim Skinner. (1) "Popular Similies and Things People Say," (8) "Euphemisms and Taboo Words."
- Thursdays 3, 10 -- MAJORS AND MINORS, 7 p.m., Ray Barfield.
- PLOTS AND PROLOGUES, 8:30 p.m., Jerry Reel and Jim Barnhill.
- Fridays 4, 11 -- MAJORS AND MINORS (repeat), 3 p.m.
- PLOTS AND PROLOGUES (repeat), 4:30 p.m.
- PERFORMANCE, 7 p.m., Jim Barnhill.
- LATIN BEAT, 8:30 p.m., Joe Arbena.
- Saturdays 5, 12 -- JAZZSPOT, 7:30 p.m., George Donahue. (5) "Charlie 'Bird' Parker," (12) "John Coates, Jr."
- CLEMSON SIDETRACK, 8 p.m., Henry Cook.



H. M. Cox



W. D. Trevillian

TWO ACADEMIC DEANS RETURN TO TEACHING

Two of the University's academic deans will relinquish their deanships effective July 1 and return to teaching duties next fall in their respective colleges.

They are Dr. H. M. Cox, dean of the College of Liberal Arts, and Dr. Wallace D. Trevillian, dean of the College of Industrial Management and Textile Science.

Dr. Victor Hurst, vice president for academic affairs and dean of the university, said he has appointed Thomas D. Efland to serve as acting dean of the College of Industrial Management and Textile Science, effective July 1, and has named a nine-member search committee to search for a new dean.

Efland has served as associate dean and director of research for many years.

President Bill L. Atchley expressed his "sincere appreciation to these men for all the successes they have brought to Clemson University through their efforts. They possess a wealth of experience that students can learn from and can make a major contribution to the education of young people at Clemson."

Cox was named to his deanship in 1968 when it was announced that a new College of Liberal Arts would be created through a division of the then College of Arts and Sciences, effective July 1, 1969. He was head of the English and modern

languages department at the time.

A Mt. Olive, N.C., native, Cox joined the Clemson faculty in 1939 as an English instructor after receiving his master's degree from Duke University. After serving in the Navy during World War II as Japanese interpreter and translator, he returned to Clemson and was head of the English and modern languages department from 1950-1969.

Cox earned the Ph.D. degree at the University of Pennsylvania (1958) and was a Fulbright lecturer in American literature at the University of Graz, Austria, during the 1958-59 academic year.

In 1976 he and Mrs. Cox established a fund for promotion of liberal arts programs at Clemson with an initial endowment gift of \$10,000 through the Clemson University Foundation. The fund is known as the Morris and Irene Cox Liberal Arts Fund.

Trevillian, longtime textile educator and university administrator, has served Clemson in various academic and administrative posts for the past 33 years, except for periods when he returned to graduate studies at the University of Virginia. He has held his deanship for more than 17 years.

A Charlottesville, Va., native who came to Clemson in 1947, Trevillian was teaching economics when he was tapped to head the newly organized department of industrial management in the then School of Arts and Sciences. Under his leadership, the department's enrollment had grown to be among the largest on campus by 1962 when it was combined with the School of Textiles to form the School (now college) of Industrial Management and Textile Science.

Trevillian has been instrumental in reshaping Clemson's programs in textiles and management to serve and support South Carolina's textile industry and to prepare students for careers of leadership in business, industry and education.

During his administration 14 degree programs have been developed--seven undergraduate and six graduate programs plus the cooperative Master of Business Administration program with Furman University.

For the spring semester the college has the largest enrollment (2,293 students) of Clemson's nine colleges. Faculty numbers 104.

Besides the Clemson-Furman MBA program, the college's outreach achievements include a continuing education program whose timely courses attract more than 4,000 participants annually. Ongoing centers in color science, small business development and economic education further strengthen the college's service role to the state and nation.

Trevillian has the bachelor's, master's and doctoral degrees from the University of Virginia. Active in professional and civic groups, Trevillian is president of the National Council of Textile Education and a member of the Commission for Business Professions of the National Association of State Universities and Land-Grant Colleges.

Members of the search committee for the College of IM & TS deanship represent the four academic departments of the college: accounting and finance, Dr. John M. Wannamaker and Dr. James D. Sheriff; economics, Dr. Hugh H. Macaulay, chairman, and Dr. Dudley W. Blair; industrial management, Dr. C. H. Whitehurst, Prof. Susan H. Brown and Dr. J. Wayne Patterson; textiles, Prof. J. C. Hubbard, Jr., secretary, and Dr. Christine W. Jarvis. Ms. Melonie Willingham will serve as affirmative action advisor.



DEAN GEORGE COAKLEY
TO RETIRE FROM
'SECOND CAREER'

George E. Coakley

Associate Dean of Students George E. Coakley, with more than two decades of service to Clemson in student personnel work and as a former instructor with the Army ROTC detachment, has announced plans to retire June 30.

Coakley, a 1941 Clemson alumnus, joined the University staff in 1961 as assistant dean of students upon his retirement from the Army with 20 years' service. He attained the rank of lieutenant colonel. From 1947-50 he was an assistant professor of military science at Clemson.

Coakley said student personnel work has provided many personally satisfying experiences. "Helping students is the thing that has been utmost in my mind through the years," he said.

"I like to feel I have touched their lives in some beneficial ways," said Coakley. "I've been especially pleased that students have invited me to join their ranks with membership in Tiger Brotherhood, Alpha Phi Omega and Mu Beta Psi."

During his service with the Office of Student Affairs, the Clemson student body has grown from 4,100 in the fall of 1961 to an enrollment of more than 11,700 last fall.

In 1963 Coakley was named dean of men. He was promoted in 1970 when the Office

of Student Affairs reorganized its administrative structure to deal more effectively and realistically with changing student needs. Coakley assumed broader responsibilities with all students rather than dealing specifically with men.

Coakley has served as advisor to numerous student organizations through the years, including the speakers' bureau, rifle team, sailing club, WSBF radio and the student elections board.

He's been chairman of the student media advisory board for the last three years, a member of the scholarship and awards committee for 15 years or more and served two years on the recreation advisory committee.

In dealing with students, Coakley said he adopted the philosophy of his boss, Dean Walter T. Cox: "If we make a mistake, we'll make it in favor of the student."



EXPANSION, INNOVATION
HIGHLIGHT
GOURLAY ERA

J. W. Gordon Gourlay

J. W. Gordon Gourlay, under whose leadership the campus library has experienced its greatest period of growth and change as it emerged into a true University library, will retire June 30.

Gourlay has served as director of the library for the past 26 years. He came to Clemson from Louisiana Polytechnic Institute at Ruston, where he was assistant librarian at the Prescott Memorial Library.

When Gourlay joined the Clemson staff in February 1954, the library was housed in cramped, inadequate quarters in Sikes Hall. Five years later, planning was under way for a new \$3 million building to serve the needs of an exploding enrollment, an expanding graduate school and increasing faculty research.

In October 1966, Gourlay witnessed a dream come true with dedication ceremonies for the new Robert M. Cooper Library, a beautiful three-level structure now used by almost a half-million people every academic year. The facility was completed in less than two years on a site once occupied by the motor pool.

With an eye towards the future, the building's designers included ample space for future expansion as the need arose. Since then Gourlay has seen the library's physical facilities expanded again and again and its collections grow in size and quality. Total volumes now number 762,408.

In 1968 Gourlay was instrumental in bringing computer technology to the R. M. Cooper Library with the introduction of an automated circulation system. The computerized record-keeping replaced a manual, two-card method of lending books, which had been used for 50 years. Other applications of computer technology to library operations followed.

Gourlay had seen the need for such a system some five years earlier in anticipation of increased circulation in the future. The automated operation meant a new era of book check-out for both borrower and librarian.

During his tenure as director, the library budget has increased from a total of \$128,842 to an amount in excess of \$2 million. The full-time staff was expanded from 15 to 78 and the budget for books has increased from \$34,500 to \$900,000.

A library survey by the S.C. Commission on Higher Education in 1976 noted "One is impressed with how well the Clemson library has carried out its purposes...

That is why the Clemson library appears to this surveyor as being that rarity among university libraries, one that has attempted to tailor its collections precisely to the educational programs."

The library building, although planned nearly 20 years ago, will serve the needs of students and faculty and citizens of South Carolina well into the 21st century, Gourlay said.

A native of Lancaster, Ontario, Canada, Gourlay graduated from Queen's University in 1940 with a B.A. degree in English, history and economics. He

received his Bachelor of Library Science degree from McGill University (1941) and his Master of Library Science degree from the University of Michigan (1942) under a grant from the Carnegie Foundation.

Dr. Victor Hurst, vice president for academic affairs and dean of the university, has appointed the following members of a search committee to select a new director: Myra A. Armistead, chairman; Ida S. Foster, John V. Hamby, John L. Kelland and Beth A. Reuland. Dr. Sam Willis will serve as affirmative action advisor.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



CONFERENCE ON SPORT AND SOCIETY TO BE A FIRST

"There's not another one like it in the country." That's the assessment of members of the College of Liberal Arts and the Clemson Athletic Department, two groups which have pooled their resources to organize and fund the first annual Clemson University Conference on Sport and Society.

Set for March 25-28, 1981, the conference will provide scholars, the public and leading figures in the world of sport (both participants and commentators) the opportunity to examine the role of sport in our culture.

According to conference director Joe Arbena, the theme of the 1981 gathering will be "Sports Studies: The State of the Art." Arbena, a professor of history, says the conference format will be two-fold: day sessions to provide forums for scholarly discussion on the specific theme; and evening sessions during which well-known speakers will talk on more general issues to the public at large.

The three-day event will be planned in part by an advisory committee consisting of members of the colleges of Liberal Arts, Education, Forest and Recreation Resources, and Engineering. Arbena also anticipates naming a student to that committee.

Funds for the conference will come largely from the Athletic Department's gate receipts. No state appropriations will be used.

Arbena says that topics for the conference are virtually unlimited. Possible areas range from "bioengineering" techniques for mending injured athletes

to "sports art."

"Sports studies is a new field of scholarly inquiry," says Arbena. "This conference will also be a chance for people not normally involved in academics to get involved in new approaches to sports."

CABINET PASSES REGULATIONS GOVERNING ROCK CONCERTS

At its Feb. 21 meeting, the President's Cabinet approved several regulatory actions dealing with the reinstatement of rock concerts on campus, including informing all concert-goers of state and university regulations, a more stringent policy of search and seizure, and organization of a Concert Peer Patrol.

In brief, the following actions were approved:

- University Union personnel will screen out potential concerts that attract a less-than-desirable audience.
- The Union will initiate a program to educate Clemson students on assuming responsible behavior at concerts.
- State and university regulations must be publicized to all who attend concerts, including off-campus participants.
- Total reserved seating will be used whenever feasible.
- A more stringent policy of search and seizure will be enforced at all entrances to coliseum concerts.
- Concert security personnel will be utilized more effectively at key locations to facilitate crowd control and curtail alcohol and drug abuse.
- Ushers will be used to assist in patron seating.
- A Concert Peer Patrol will be organized to keep check on cigarette smoking and alcohol and drug abuse.

Full text of this policy is available in the office of the vice president for student affairs.

ATCHLEY TO SPEAK AT PHI KAPPA PHI BANQUET

President Bill L. Atchley will be the featured speaker at the Phi Kappa Phi awards banquet April 8 in the Palmetto Room of the University Union. Dr. Atchley is also one of approximately 100 outstanding scholars being inducted into the organization prior to the banquet.

Membership in Phi Kappa Phi is limited to 10 percent of the number of graduates in the senior class and may be conferred upon outstanding juniors or seniors. Graduate students whose entire college record exceeds a GPR of 3.5 are also eligible for membership. Additionally, one faculty or staff member with outstanding accomplishments may be accepted to membership each year. Juniors accepted this year all have a GPR of 3.91 or above. All seniors being inducted are above 3.50.

The initiation is scheduled for 6:15 p.m. with the banquet following at 7 p.m. All members of Phi Kappa Phi are urged to make their reservations with Earl T. Carpenter, secretary, at 656-3300 in Room 414 Nursing Building. Banquet tickets are \$5.00 each for members and their guests.

WEPR TO AIR SERIES ON "WOMEN-THEMSELVES"

Public radio station WEPR and the Department of History have received funding from the S.C. Committee for the Humanities and the Corporation for Public Broadcasting to produce a 26-part radio series entitled "Women-Themselves."

Based on the autobiographical writings of women in America's history, each of the half-hour programs consists of dramatic readings taken from each woman's own writing and brief commentary on the woman and her place in history by a humanist.

Various programs will deal with women during the Depression, women captured by Indians, immigrant women at the turn of the century and much more.

Co-directors of the project are Alan Schaffer, head of the Department of History, and Lily-Roland Hall, WEPR station manager. Laura Becker of the History Department is chief researcher and host, and WEPR's Charlotte Holt will be producer.

The series begins Sunday, April 6, at 6 p.m. on WEPR (90.1 FM). Each program will air first each week at this time with repeat broadcasts at 3:30 p.m. on Tuesdays.

The first month's programs include: April 6, "Mary Chesnut," a pre-Civil War southerner; April 13, "Mary Antin" on life in the Old World; April 20, "Hard Times" and April 27, "Good Times," women in the Depression.

DEPARTMENT OF LANGUAGES SPONSORS DIONYSIA '80

Dionysia '80, the annual drama competition for foreign language students sponsored by the Department of Languages, will be held April 18-19.

Activities will begin on Friday, April 18, at 7 p.m. with Clemson foreign language students performing scenes from European plays in Lee Hall Auditorium.

Beginning at 9 a.m. on Saturday, April 19, visiting students from high schools and colleges in the Carolinas, Georgia and Virginia will compete in dramatic presentations in French, German, Russian and Spanish. Upon completion of all contests, an awards and prizes ceremony will be held in Daniel Hall Auditorium.

Everyone interested in drama or foreign languages is welcome to attend all activities. For further information, please contact the Dionysia Committee, 201 Strode Tower, 656-3393.

WEPR IMPROVES TRANSMISSION AND PROGRAMMING QUALITY

Schedule changes and improved transmission quality signal the arrival of the space age to South Carolina Public Radio Station WEPR (90.1 FM).

Following the installation of a large satellite dish near the Clemson House where WEPR is housed, the station joined the Public Radio Satellite Interconnection System at the end of March. The satellite picks up signals from Weststar II, a Western Union satellite.

Station manager Lily-Roland Hall says the new distribution system replaces monaural telephone line feeds and stereo tapes. The dish receives four monaural or two stereo programs simultaneously, giving the station access to more programs of much better quality from the National Public Radio network and independent producers.

Listeners are urged to tune in often to sample the greater variety of programs offered by the network. Comments and suggestions are invited and should be directed to the Program Director, WEPR Radio Studios, Clemson House, 656-3070.

ANNUAL COMPETITION OPENS FOR OVERSEAS STUDY

The Institute of International Education announced that the official opening of the 1981-82 competition for grants for graduate study or research abroad in academic fields and for professional training in the creative and performing arts is scheduled for May 1, 1980. It is expected that approximately 519 awards to 50 countries will be available for the 1981-82 academic year.

The purpose of these grants is to increase mutual understanding between the people of the United States and other countries through the exchange of persons, knowledge and skills. They are provided under the terms of the Mutual Educational and Cultural Exchange Act of 1961 (Fulbright-Hays Act) and by

foreign governments, universities, corporations and private donors.

Applicants must be United States citizens at the time of application, who will generally hold a bachelor's degree or its equivalent before the beginning date of the grant and, in most cases, will be proficient in the language of the host country. Except for certain specific awards, candidates may not hold the Ph.D. at the time of application. Candidates for 1981-82 are ineligible for a grant to a country if they have been doing graduate work or conducting research in that country for six months or more during the academic year 1981-82.

Creative and performing artists are not required to have a bachelor's degree, but they must have four years of professional study or equivalent experience. Social work applicants must have at least two years of professional experience after the Master of Social Work degree; candidates in medicine must have an M.D. at the time of application.

Application forms and further information for students currently enrolled in Clemson University may be obtained from the Fulbright Program Adviser Dr. A. E. Schwartz, who is located in The Graduate School, E-106 Martin Hall. The deadline for filing applications on campus is Oct. 1, 1980.

ARCHITECTURAL STUDIES

Richard Norman (Assoc Prof) and Norman Book (Prof, Bldg Sc) jointly presented a paper, "Integration of Design and Technology," at an Architectural Science and Technology Workshop held Feb. 29-March 1 on the Georgia Tech campus, Atlanta, GA. The presentation focused on the accomplishments toward integration of course content in the College of Architecture curriculum. The workshop was sponsored by the S. E. Regional Association of Collegiate Schools of Architecture. Donald Collins (Prof) also participated in this seminar-workshop.

Gayland Witherspoon (Prof and Hd) had materials explaining his home, which he designed and built in Clemson, published in the proceedings of the Second National Passive Solar Conference, Passive Solar: State of the Art.

BIOCHEMISTRY

Carolyn S. Brown (Asst Prof) presented a seminar, "Derivation and Biochemistry of the Melanoma Cell," Division of Science, University of South Carolina, Spartanburg, Feb. 13.

Gary L. Powell (Prof) visited the Biology and Chemistry departments at Presbyterian College Feb. 15 as the guest of Mike Henson (M.S. '78, Microbiology), Instructor of Biology. He discussed the expectations of graduate and professional schools with interested students and gave a seminar, "Cellular Functions of Membranes."

J. M. Shively (Prof and Hd) presented a seminar, "RuBP Carboxylase, Carboxysomes, and CO₂ Fixation in Autotrophic Microbes," at the University of Nebraska, Lincoln, and at Kansas State University, Manhattan, during the week of Feb. 17.

BUILDING SCIENCE

Ralph Knowland (Prof and Hd) received Feb. 21 on behalf of the Building Science Department a scholarship in the amount of \$2,000 awarded jointly by the National Chapter of Home Builders and the Greenville-Pickens Chapter of NAHB.

Prof. Knowland presented a talk, "Role of Continuing Education in the Recertification of Professionals," at a meeting of the Greenville Chapter of Construction Specifications Institute on Feb. 28 in Greenville.

CHEMISTRY AND GEOLOGY

A. R. Pinder (Calhoun Prof) delivered a seminar, "Mass Spectrometry in Organic

Chemistry," at Erskine College March 7.

R. A. Abramovitch (Prof and Hd) has published a paper in collaboration with S. S. Mathur (Post-doctoral fellow, Alabama), Daniel W. Saunders (Post-doctoral fellow) and D. P. Vanderpool (Grad Stu, Alabama) entitled "Pyridinium p-Toluenesulfonylmethylide as a Formyl Anion Equivalent" in Tetrahedron Letters, 1980, 705.

CIVIL ENGINEERING

Ben Sill and John Fisher (Assoc Profs) have been awarded a two-year (\$103,800) grant supported by the National Science Foundation, Division of Atmospheric Sciences. The project is titled "Development of a New Vapor Budget Technique for Measurement of Evaporation." This will be primarily a field study to be conducted on Lakes Hartwell and Keowee and will involve the use of tethered balloon sondes for the measurement of atmospheric properties.

Subhash C. Anand (Prof) and David T. Young (Design Engineer, Piedmont Engineers and Architects, Greenville; Former Grad Stu) are co-authors of a paper, "A Finite Element Model to Predict Inter-Laminar Shearing Stresses in Composite Masonry," that was presented by Russell H. Brown (Assoc Prof) on behalf of the authors at the Conference on Masonry Research in Progress held at Marina Del Rey, CA, March 11-12. The paper will also be published in the Conference Proceedings.

Prof. Brown presented a paper at the Conference on Masonry Research in Progress entitled "An Evaluation of Masonry Anchor Bolts for Seismic Applications" in Los Angeles, CA, March 11. The paper was co-authored by Steve Williams (Grad Stu) and will appear in the Conference Proceedings. Prof. Brown also served as responder to another presentation at the meeting.

Herbert W. Busching (Prof and Hd) has been selected by the National Roofing Contractors Association to serve on the

Editorial Review Committee for The Journal of Roofing Technology. This scientific journal is devoted to roofing, roof deck construction, and water-proofing.

James L. Burati (Asst Prof) attended the Federal Aviation Administration Airport Engineering Conference March 5-6 at Hershey, PA, where he gave a presentation, "Acceptance Criteria for Bituminous Surface Course on Civil Airport Pavements."

Prof. Burati presented a paper, "Use of the Computer in the Development of Statistically Based Acceptance Plans," at the Annual Meeting of the Transportation Research Board, Jan. 21-25, Washington, DC.

COMPUTER SCIENCE

John C. Peck (Assoc Prof) participated as a judge in the National Scholastic Programming Contest at the ACM Computer Science Conference in Kansas City, MO, Feb. 11-15.

ENGLISH

Two members of the English faculty had works included in Southern World, 2, No. 1 (1980): Bruce Firestone (Asst Prof), "The Not So Gentle Art of Film Reviewing," pp. 18-19, and David Tillinghast (Asst Prof), a scene from a longer work, "Molly," pp. 57-59.

Robert W. Hill (Assoc Prof) published "Poems are Single," a poem in Humanities in the South, Spring 1980, p. 15.

Fred Shilstone (Assoc Prof) read a paper and chaired a section on "The Integration of the Humanities with Other Fields" at the joint meeting of the Southern Humanities Conference and Southern Comparative Literature Association, Auburn University, Alabama, Feb. 14-16.

Prof. Tillinghast recently served as judge for the fiction division of the Southern Literary Festival, Millsaps

College, Jackson, MS.

ELEMENTARY AND SECONDARY EDUCATION

William W. Pennscott (Prof) conducted an in-service workshop, "Counseling Students Involved with Bereavement," for the ESAA Middle School Counseling Program of Greenville County Schools.

Prof. Pennscott has been appointed co-chairperson of the College Student Development Counseling Committee, a committee of the Southern Association for Counselor Education and Supervision.

HISTORY

Victor H. Matthews (Vstg Asst Prof) presented a paper to the South Carolina Academy of Religion meeting in Columbia Feb. 23 entitled "Conflict as a Literary Device in the Jacob Cycle."

Richard M. Golden (Asst Prof) published a review of Bernard Reardon's Liberalism and Tradition: Aspects of Catholic Thought in Nineteenth-Century France in the Journal of Church and State, 21 (Autumn, 1979), 584-85.

D. G. Paz (Vstg Asst Prof) attended the Missouri Valley History Conference in Omaha March 6-8 where he read a paper, "Social Catholicism in Omaha, 1877-1914," and commented on a panel, "Britain Between the Wars."

E. M. Lander Jr. (Alumni Prof) has authored a book, Reluctant Imperialists: Calhoun, the South Carolinians, and the Mexican War, published by Louisiana State University Press, March 1980.

INDUSTRIAL EDUCATION

Alfred F. Newton (Prof and Hd) spoke to the Industrial Directors of the South Carolina Technical Education Association on the topic of "The Challenge of the Eighties." The meeting was held March 7 at Myrtle Beach.

LANGUAGES

Margit M. Sinka (Assoc Prof, German) published "German Conversation with Focus and Meaning: New Approaches" in Die Unterrichtspraxis, XII, No. 1.

LIVESTOCK-POULTRY HEALTH

Thomas H. Eleazer (DVM) presented a paper, "Current Trends in Gamebird Disease Control," at the North American Game Breeders and Hunting Preserve Association's Annual Convention at Orlando, FL, Jan. 8-10. The same presentation will be made at the Southeastern Game Breeders and Hunting Preserve Association's Annual Short Course April 18-19 in Richmond, VA.

PLANNING STUDIES

Jose R. Caban (Assoc Prof) aided in the organization of the Eleventh Annual Conference of the Environmental Design Research Association held March 2-6 at the College of Charleston. The conference was sponsored by the College of Charleston's Center for Metropolitan Affairs and Public Policy, the Department of Psychology at the University of South Carolina and Clemson's College of Architecture. The conference had national and international attendance and included featured papers, symposia, workshops and invited sessions.

PLANT PATHOLOGY AND PHYSIOLOGY

N. D. Camper (Prof) attended the Cotton Weed Science Research Conference in St. Louis, MO, Jan. 7, and presented a paper, "Impact of Government Regulations on the Development of Agricultural Chemicals," authored by E. I. Zehr (Prof) who was unable to attend.

Prof. Camper attended the meeting of the Weed Science Society of America in Toronto, Canada, Feb. 5-8, and presented two papers: "Degradation of Diuron by Pond Water and Pond Sediment Micro-organisms" co-authored by P. A. Ellis

(Grad Stu), and "Effects of Trifluralin and Colchicine on Carrot, Daucus carota Callus" co-authored by M. E. Sloan (Grad Stu).

G. C. Kingsland (Assoc Prof) attended the Southeastern Regional Conference on Mycotoxins in Feeds in Atlanta, GA, Jan. 28-29, and presented a paper, "Results of Research on Aspergillus flavus." He served as secretary for 1979-80 and assumed the role of vice chairman for the year 1980-81.

Prof. Kingsland attended the Southeastern Regional Conference on Viruses and Mycoplasma-like Diseases of Corn in Atlanta, GA, Feb. 11-12, and presented two papers: "The Potential Economic Losses in Corn Attributable to Maize Dwarf Mosaic Virus" and "The Distribution of Two Viruses of corn in South Carolina." The latter paper was co-authored by O. W. Barnett (Prof, Plant Path and Phys) and E. B. Eskew (Assoc Prof, Agron and Soils).

At the Feb. 3-6 meeting of the Southern Division of the American Phytopathological Society, Prof. Barnett was elected vice-president of the division for 1980 and will be president of the organization in 1981.

POLITICAL SCIENCE

Walton H. Owens (Assoc Prof) has published an article, "Cynicism and Transience in Reactions of Southern Blue Collar Workers to the Carter Energy Proposal," in Psychological Reports, 44 (1979), 1263-1266.

Michael A. Morris (Asst Prof) addressed the National Defense Research Institute in Stockholm, Sweden, March 10, on the Third World navies.

PROFESSIONAL DEVELOPMENT

John J. Porter (Prof, Tex) is chairperson for a two-day conference, "Alcohol Fuels," to be held April 21-22 on campus.

Bob Rutledge (Assoc Prof, Tex) is chairperson for a two and one-half day conference, "Special Topics in Textile Printing," to be held on campus April 22-24.

Robert W. Rouse (Assoc Prof, Acct and Fin) is chairperson for a one-day workshop, "Review of Selected Current Issues in Accounting and Developments in Tax Legislation," to be held April 25 on campus.

Warren W. Menke (Prof, IM) is chairperson for a two-day on-campus seminar, "Utilize the Computer to Improve Your Management Ability," to be held April 29-30.

Hassan M. Behery (Assoc Prof, Textiles) is chairperson for a two-day workshop, "Technical Workshop on Open-End Spinning," to be held in Greenville, Spartanburg and Charlotte, N.C., April 29-May 1.

Carleton W. Roberts (Prof, Tex) is chairperson for a two-day conference, "Textile Chemistry Put to Work," to be held April 30-May 1 on campus.

ZOOLOGY

Edward E. Ruppert (Asst Prof) was an invited seminar speaker at Wake Forest University, Department of Zoology, Nov. 14. His presentation was entitled "Reproduction in Marine Gastrotricha."

Sidney Gauthreaux (Prof) attended a Department of Energy workshop on the impact of increased atmospheric carbon dioxide and climatic change on global forest ecosystems at Virginia Polytechnic Institute and State University Feb. 25-27. Prof. Gauthreaux discussed

changes in the distribution and abundance of forest animals and plants in response to climatic changes.

ENGINEERING OPENS HOUSE FOR YOUNG STUDENTS

The College of Engineering's Open House will be held April 11 with over 3,000 junior high and high school students and school counselors expected to attend.

All South Carolina high schools, and many from neighboring states, are invited to send general groups or math and science clubs to visit the varied laboratories and display areas provided.

Last year over 75 exhibits and demonstrations were included featuring displays in each of the engineering buildings and representing all of the departments and programs of the college. Projects represented proposed solutions to current real world problems in areas such as energy, computers, transportation, communications and machine design.

The entire Engineering Open House effort, which involves both students and faculty, has as its major objective the challenge of younger students with the prospect of an engineering education.

All Engineering buildings will be open from 9 a.m. until 5 p.m. on Friday, April 11, with information stations at each main entrance to assist visitors. The general public is welcome.

For further information, contact Duncan Rabey, director of engineering projects, 656-2371.

Calendar of Campus Events

APRIL

- 15-18 -- Art Exhibition: "Architectural Thesis and Terminal Project Reviews." Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 16 -- English Hour Reading: Reading of Student Verse and Fiction. Sponsored by English Department, Strode Tower Lounge, 8 p.m. Open to the public, no admission charge.
- 16-17 -- Coffeehouse: Local Talent. Sponsored by University Union, The Gutter, 8 p.m. University I.D. required, 50¢ donation requested.
- 16-17 -- Inauguration Symposium: "Energy: The Future." April 16--2 p.m., Dr. John McKetta, E.P. Schoch Professor of Chemical Engineering at the University of Texas, "The United States Energy Problem: America's Achilles' Heel"; 4 p.m., Dr. Margaret Maxey, Assistant Director of the South Carolina Energy Research Institute, "Energy Needs: A Bioethical Perspective on Value Conflicts." April 17--2 p.m., Dr. Emery Castle, President of Resources for the Future, "The American Dream and the Energy Nightmare"; 4 p.m., Dr. Robert Thrall, Noah Harding Professor of Mathematical Sciences at Rice University, "Mathematics in Energy." All lectures will be held in Daniel Hall Auditorium and are open to the public free of charge.
- 16 -- Inauguration Play: The Night Thoreau Spent in Jail. Presented by the Clemson Players, Daniel Hall Auditorium, 8 p.m. Limited number of seats open to the public, no admission charge.
- 17 -- Inauguration Concert. Presented by the Concert Band, Littlejohn Coliseum, 8 p.m. Open to the public, no admission charge.
- 17-18 -- Baseball: Virginia, here, 3 p.m.
- 18 -- Inauguration Day. The inauguration ceremony will begin at 2 p.m. in Littlejohn Coliseum. A reception will follow at Jervy Meadows. An inauguration subscription dance will be held at 8 p.m. in Fike Recreation Center; tickets may be purchased from the Alumni Center.
- 18-19 -- Dionysia '80. Drama competition in French, German, Russian and Spanish by students from universities and high schools in the Southeastern states. April 18--Clemson foreign language students will perform scenes from European plays at 7 p.m. in Lee Hall Auditorium. April 19--Actual student competition and festival will begin at 9 a.m. The awards and prizes ceremony will be held in Daniel Hall Auditorium upon completion of all contests. All activities are open to the public free of charge.
- 18 -- Engineer-In-Training Examination. Part I of the written examination required for professional engineering registration. Sponsored by College of Engineering, Room 226 Riggs Hall, 7:30 a.m. - 5 p.m.

- 19 -- Baseball: Maryland, here, 2 p.m.
- 19 -- Bengal Ball. Live entertainment by "Rock Mountain," beer and soft drinks. Sponsored by University Union, YMCA Recreational Area, 1-6 p.m. University I.D. required, \$3.50 tickets available at Union ticket booth Monday - Friday 11 a.m. - 1 p.m. and 4-7 p.m. beginning April 3.
- 20 -- Free Flick: "Almost Summer." Sponsored by University Union, YMCA Theater, 8 p.m. No admission charge with University I.D.
- 21 -- Edgar's: Reader's Theatre. Sponsored by Univeristy Union, Edgar's, 8-9 p.m. Proof of age and University I.D. required.
- 21-27 -- Videotape: "Second City Revue." Sponsored by University Union, loggia. Shown on request.
- 23 -- Brown Bag Special: "Santa Cruz Island" and "Abbott and Costello Meet Frankenstein." Sponsored by University Union, Edgar's, noon - 1 p.m.
- 25-27 -- Outdoor Ventures: Weekend of family-oriented outdoor activities. Sponsored by Department of Recreation and Park Administration, Outdoor Lab on Lake Hartwell. For more information, call Charlie White at 656-2477.
- 27 -- Free Flick: "Last Picture Show." Sponsored by University Union, YMCA Theater, 8 p.m. No admission charge with University I.D.
- 28 -- Examinations begin.
- 28-5/9 -- Art Exhibition: "MFA Thesis Show." Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.

WEPR Highlights

South Carolina Educational Radio Network programs produced by Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg; WSCI 89.3 FM, Charleston; and WMPR 88.1 FM, Sumter.

- Weekdays -- MORNING EDITION, 6 a.m., a news and feature magazine.
- DRIVETIME, 4:30 p.m. Monday - Thursday, a news, music and feature magazine produced by Jim Barnhill.
- Sundays -- WOMEN-THEMSELVES, 6 p.m., Charlotte Holt. (20) "Hard Times,"
(20, 27) (27) "Good Times."
- Mondays -- A LITTLE NIGHT MUSIC, 7 p.m., Bill French. (21) "The American Voice,
(21, 28) Part II," (28) "A Celtic Sojourn."
- Tuesdays
(15, 22, 29) -- WOMEN-THEMSELVES (repeat), 3:30 p.m.
- THE OLD AND NEW WORLDS OF WORDS, 4 p.m., John Idol and Jim Skinner.
(15) "Slang, Part I," (22) "Slang, Part II."
- Thursdays -- MAJORS AND MINORS, 7 p.m., Ray Barfield. (17) "Borrowed Patterns 4,"
(17, 24) (24) "Music Day April 24."
- PLOTS AND PROLOGUES, 8:30 p.m., Jerry Reel and Jim Barnhill.
- Fridays -- MAJORS AND MINORS (repeat), 3 p.m.
(18, 25)
- PLOTS AND PROLOGUES (repeat), 4:30 p.m.
- PERFORMANCE, 7 p.m., Jim Barnhill. (18) Furman Singers,
(25) Carolina Youth Symphony.
- LATIN BEAT, 8:30 p.m., Joe Arbena. Regional Varieties of Latin
American Music: (18) Ecuador, Peru and Chile, (25) The Caribbean.
- Saturdays -- JAZZSPOT, 7:30 p.m., George Donahue. (19) "Bassist Rob Carter,"
(19, 26) (26) "Latin Jazz."
- CLEMSON SIDETRACK, 8 p.m., Henry Cook.



PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of Public Relations, Trustee House. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of Public Relations, Trustee House. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to Dr. Claud B. Green, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



SIGMA XI NAMES
TOP CU RESEARCHER

Ted Wallenius

Ted Wallenius, professor of mathematical sciences, has been selected by the Clemson University chapter of Sigma Xi to receive its first faculty research award. The announcement was made at the group's annual banquet April 4.

Wallenius has been invited by the national honor society for research to present a lecture on his work, designed for a lay audience, April 23 in Daniel Auditorium at 8 p.m. The public is invited.

At that time, the Sigma Xi award will be presented officially, along with a plaque to be displayed in Sikes Hall.

Over the past nine years, Wallenius's research has included wide-ranging statistical studies for the Office of Naval Research. His work has led to the development of new statistical procedures for evaluating multi-billion dollar Navy contracts. He is currently involved in procurement procedures for the Trident missile.

Wallenius graduated from the University of Southern California in 1954 and received his Ph.D. degree in mathematics from Stanford University in 1964. He joined the Clemson faculty in 1968 and has brought more than \$380,000 in outside research funds to the University.

In 1977, Wallenius was elected a fellow of the American Statistical Association.

Every scientist uses statistics, said John Fulton, head of the Mathematical Sciences Department, "so contributions like Ted's to statistical theory and methods have an impact on research by all scientists, whatever their areas of endeavor."

The award committee which selected Wallenius was chaired by Professor Horace Skipper and included Professors Ray Abernathy, Dwight Camper, Gary Powell and Garth Spencer.

"OUTDOOR VENTURES" FOR FAMILIES SET FOR APRIL 25-27

If you think your family might enjoy a weekend together in the great outdoors, "Outdoor Ventures" may be what you're looking for.

Sponsored by the RPA Department, "Outdoor Ventures" is a weekend of family-oriented outdoor activities to be held April 25-27 at the outdoor laboratory on Lake Hartwell.

"The trend today is for members of the family to all go in different directions, to do their own things," explains the program's director Charlie White.

"In 'Outdoor Ventures' we want to bring the family together on a common ground for common purposes, such as recreating and learning together in an outdoor setting."

Designed for families and individuals ages four and up, "Outdoor Ventures" will provide a wide range of recreational and educational activities such as nature hikes, water sports, photography instruction and historic tours.

Activities specifically for children ages

4-12 include power boat rides, scavenger hunts and trips to farms. Adult activities include a Chattooga River float trip, bee-keeping, cooking and outdoor painting instruction.

"We're really interested in making this program into an annual weekend of 'down-home' fun and fellowship," says White.

Many of the instructors and cooks for "Outdoor Ventures" will come from various departments at the University, he adds.

Graduate zoology student Paul Hamel will conduct the early morning bird walk; entomologist Jimmy Howard will provide instruction on beekeeping; botany herbarium curator Caroline Douglass will lead the wildflower walk; geology instructor John Wagner will teach a geology course; and forestry professor Bill Shain will teach an archery class.

Some of the treats White's staff of cooks are planning include a pork barbecue, coordinated by forestry professor Don Ham, a chicken barbecue, coordinated by poultry science professor John Welter, and ham and cheese omelets prepared by the Poultry Science Club.

White says the varied program content has "the basic goal of making the outdoors fun, exciting, challenging and educational. We hope our guests at 'Outdoor Ventures' will be exposed to something new that they might pursue as a lifetime skill or hobby after they leave us."

Housing is available at the outdoor lab. Four separate financial plans are offered, depending on individual needs. Children under 12 can come for half the full rate.

Enrollment in "Outdoor Ventures" is limited to 100 people. Deadline for registration is April 18. Interested University employees are urged to contact White immediately if this newsletter is received after that date.

For complete information, contact Charlie White at 2477.

CLEMSON STAFFERS ON GOVERNOR'S AFFIRMATIVE ACTION TASK FORCE

A 28-member task force including several Clemson staff members recently presented Governor Dick Riley an in-depth report on affirmative action.

The Governor's Task Force on Affirmative Action in Higher Education included University employees Frank Mauldin, employment manager; Col. E.N. Tyndall, assistant to the president; Ray Thompson, personnel director; and Melonie Willingham, affirmative action specialist.

The group presented the Governor with a "Report of Findings and Recommendations on Affirmative Action in Higher Education" at the First Governor's Conference on Equal Opportunity in Higher Education March 28 in Columbia. Melonie Willingham was chairman of the conference planning committee.

The task force, which began its study in November 1979, was charged by Governor Riley with the purpose of "finding problems that impede the affirmative action programs in public institutions of higher learning and to propose possible solutions," according to Willingham.

There were three basic areas of study: the roles and responsibilities of state agencies concerning affirmative action the recruitment, promotion, training and selection of employees, and in-house problems related to these; and the recruitment and retention of minority students.

The task force developed a definition of affirmative action for use within institutions of higher education. It also pointed out areas of need such as a greater commitment at the state and institutional levels, properly staffed and funded affirmative action programs and better inter-agency cooperation.

STUDENT-STAFFED SECURITY FORCE AVAILABLE

The University Police Department is offering special security-oriented services

to departments, offices and organizations through its student employment program.

More than 50 trained and experienced student officers are available to provide such services as parking and traffic direction for conferences and special events, driving University vehicles, protecting against vandalism or theft, and many other security services that can be adapted to the special needs of the user.

For more information on the services provided by the student-staffed auxiliary police force, contact Ptl. M.W. McCrary, Lt. Sara Roach, Sgt. Rick Thompson or Sgt. Erv Poole at the Clemson University Police Station, 656-4197.

BOTANY

John E. Fairey III (Assoc Prof) presided over the botany section of the annual meeting of the South Carolina Academy of Science in Charleston March 28-29. The following papers were presented by members of the Botany Department at the meeting:

Caroline C. Douglass (Curator of the Herbarium), "Waldstenia lobata (Baldw.) T. & G. (Rosaceae) Verified in South Carolina."

Caroline Douglass, Prof. Fairey and Walter C. Credle (Res Asst), "A Preliminary Report on the Bryophytes of the Proposed Basin of the Richard B. Russell Lake."

Prof. Fairey, Walter Credle, Caroline Douglass and Roland E. Schoenike (Prof, Forestry), "Arboreal Flora of the Proposed Basin of the Richard B. Russell Lake (Trotters Shoals)," and "A Second Report on the Vascular Flora of the Proposed Basin of the Richard B. Russell Lake (Trotters Shoals)."

G. Ansley Wallace (Grad Stu) and Prof. Fairey, "Baccharis halimifolia L. in the Southern Piedmont of North Carolina."

C. R. Dillon (Prof and Hd) was elected vice-president of the S.C.A.S. at this meeting.

The following papers were presented by the Botany Department at the annual meeting of the Association of Southeastern Biologists in Tampa, FL, March 27-29:

Ansley Wallace and R. E. Ballard (Asst Prof), "Epidermal and Cuticular Properties of Leaves of Smilax (Smilacaceae) as Revealed by Light and Scanning Electron Microscopy."

Ansley Wallace, Prof. Ballard and Prof. Dillon, "Importance of Magnolia macrophylla Michx. (Magnoliaceae) in Disturbed Forest Sites in Piedmont North Carolina."

William Zattau (Grad Stu) and T. McInnis (Assoc Prof), "Microscopic Observations on the Infection of Mosquito Larvae by the Water Mold Leptolegnia sp. (Oomycetes)."

Prof. McInnis and William Zattau, "Pathogenicity of the Fungus Leptolegnia sp. for Mosquito Larvae."

CHEMISTRY

Keith McDowell (Assoc Prof) participated in the 1980 Sanibel Symposium on Atomic, Molecular, and Solid State Physics held at Palm Coast, FL, March 9-15. Prof. McDowell served as a visiting staff member at Los Alamos Scientific Laboratory March 16-22. He has also published a paper, "An Integral Equation Approach to Scaled $1/2$ Expansion of Static Multipole Polarizabilities," which appeared in J. Chem. Phys., 72, 2548 (1980).

J. W. Huffman (Prof) presented a seminar, "Recent Studies in the Synthesis of Higher Terpenes," at the Westvaco Research Center, Charleston, March 21.

Prof. Huffman lectured at Mississippi State University March 27 and Atlanta University March 28 on "Recent Studies in the Synthesis of Higher Terpenes."

R. A. Abramovitch (Prof and Hd) has just published a book, "Reactive Intermediates" Vol. 1. The book, edited by Abramovitch and published by Plenum Press of New York, contains five chapters by world authorities in the area of the chemistry of reactive

intermediates. These volumes are interdisciplinary and are planned to cover the organic, inorganic, physical, bio-industrial and atmospheric chemistry of such species.

Dorota A. Abramovitch (Grad Stu) presented a paper, " β -Acyl-amination of Nitrones" at the South Carolina Academy of Sciences meeting in Charleston March 28. The work was carried out in collaboration with Prof. Abramovitch and Herman P. Benecke (Vstg Instr).

Prof. Abramovitch has been notified of a grant award by the United States-Israel Binational Science Foundation for research work on "Five-Membered Carboxylic and Sulfonic Cyclic Acylimines" to be carried out in collaboration with Prof. Dov Ben-Ishai of the Department of Chemistry, Technion, Haifa, Israel. The duration of support will be for a period of up to three years. The amount allocated for the first research year will be IL 830,000. While much of these funds will be used to pay for the work to be carried out in Israel, some funds are available for Prof. Abramovitch to travel to Israel to consult with Prof. Ben-Ishai and to discuss the progress of the research. Funds are also available for Prof. Ben-Ishai to come to Clemson for the same purpose. The portion of the work carried out on the project in the United States is supported in part by a grant from the National Institutes of Health to Prof. Abramovitch. The starting date of the project will be decided formally when Prof. Abramovitch visits the Technion at their invitation to present seminars there and at the Hebrew University in Jerusalem and at the Weizmann Institute in Rehovoth in May.

J. A. Yavorsky (Grad Stu) and H. G. Spencer (Prof) presented a paper, "Effects of Sub-Tg Annealing on Sorption and Transport of Propane in Glassy Polycarbonate Films," at the South Carolina Academy of Science meeting March 29 in Charleston.

J. M. Hanna Jr. (Undergrad Stu) presented a paper, "Synthesis of Benzo-isothiazolo (2,3-a) Pyridinium Tetrafluoroborates," at the 12th Annual Southeastern Sectional Conference of Undergraduate Student

Chemists sponsored by Clemson's chapter of the American Chemical Society Student Affiliates in the Clemson House March 28. The work was carried out in collaboration with Prof. Abramovitch and A. L. Miller (Vstg Instr).

DAIRY SCIENCE

The following presented papers at the Southern Region American Dairy Science Association meeting in Hot Springs, AR, Feb. 3-6.

"Attempted Isolation of Water Soluble Conjugated Metabolites from Calf Liver Metabolism of Aflatoxin B₁," A. B. Bodine (Asst Prof), J. J. Janzen (Prof) and G. D. O'Dell (Prof).

"Age of Raw Milk and Shelf-Life of the Pasteurized Product," Prof. Janzen, J. R. Bishop (Res Tech) and C. A. Caldwell (Res Tech).

"Shelf-Life of Skim Milk as Affected by Temperature of Storage," Prof. Janzen, J. R. Bishop and C. A. Caldwell.

"The Occurrence of Mastitis Pathogens and their Respective Antibiotic Sensitivities as Related to Seasonal Changes," J. R. Bishop, Prof. Bodine and Prof. Janzen.

"Dairy Waste Solids as a Possible Source of Bedding," Prof. Janzen, J. R. Bishop, Prof. Bodine and C. A. Caldwell.

"Sodium Benzoate and Benzoic Acid Treated Colostrum for Calves," B. F. Jenny (Assoc Prof), B. A. Costello (Former Grad Res Asst) and H. J. van Dijk (Grad Res Asst).

"The Influence of the Ovarian Hormones on Specific Estrogen Receptors in Cells Derived From the Bovine Endometrium Grown in Monolayer Culture," M. F. McGrath (Grad Res Asst) and J. F. Dickey (Prof).

"FSH and LH in Syncro-Mate-B Treated Postpartum Cows," M. A. Barnes (Asst Prof) and G. W. Kazmer (Grad Res Asst).

"Effect of Methionine Hydroxy Analog and Two Levels of Protein in Complete Feeds

Fed to Cows in Early Lactation," Prof. Jenny, H. J. Van Dijk, L. W. Grimes (Asst Prof) and Prof. O'Dell.

"Plasma Hormone Response in Syncro-Mate-B Treated Heifers," G. W. Kazmer and Prof. Barnes.

"FSH, LH and Estradiol-17 β in GnRH Treated Prepuberal Holstein Heifers," Prof. Barnes, S. T. Bierley (Clin Res Tech), R. D. Halman (Grad Res Asst) and D. M. Henricks (Prof).

F. E. Pardue (Prof) presented a paper, "Slide-Tape Programs Can be an Important Way to Present Educational Material," at the Southern ADSA meeting in Hot Springs, AR. Pardue also served as president of the Dairy Extension Section and presided over the Dairy Extension Program "Dairy Extension Educational Programs That Are Working."

ECONOMICS

Ralph D. Elliott (Assoc Prof) has had an article, "Two Proxies for State Union Attitudes," accepted for publication in the Anthology Section, Atlantic Economic Journal.

Prof. Elliott has accepted an invitation from the Educational Resources Foundation to serve a two-year term as a member of the Advisory Council.

Prof. Elliott has also accepted an invitation from the University of Texas Health Science Center at San Antonio to give a presentation and lead a learn-in session on "Using EDP as a Marketing Component in Tomorrow's Continuing Education Office" at the 1980 Marketing Conference.

ENGLISH

The following members of the English faculty were listed on the program of the fourth annual meeting of the Philological Association of the Carolinas held at Clemson March 13-15:

Richard J. Calhoun (Alumni Prof) served as president of the Association this year and as a member of the Executive Committee.

H. Morris Cox (Prof & Dean, Lib Arts) gave the welcoming address.

Frank L. Day (Assoc Prof) chaired the section on "Philosophical Approaches to Literature."

Sterling K. Eisiminger (Asst Prof) chaired the section on "Contemporary American Fiction and Poetry."

Robert W. Hill (Assoc Prof) presided over "Poetry and Fiction Reading."

Harriet R. Holman (Emeritus Prof) read a paper, "Ben Robertson and the Southern Sense of Place."

John L. Idol (Assoc Prof) chaired one of the two sections devoted to Nathaniel Hawthorne.

Ronald W. Moran (Prof and Hd) chaired the section on "The Presentation of the Text in the Classroom: 'The Love Song of J. Alfred Prufrock.'"

Paul A. Orlov (Vstg Asst Prof) read a paper, "A Heideggerian Reading of The Great Gatsby."

Roger B. Rollin (Lemon Prof) chaired the section on "Memory and Mythology: The Classics and Renaissance English Literature."

Elisa K. Sparks (Asst Prof) read a paper, "A Wrinkle in Romance: Realism in Madeline L. Engle's Trilogy."

FOOD SCIENCE

Charles V. Morr (Stender Prof) attended the Chemical Society meetings in Houston, TX, March 24-25 and presented a symposium paper, "Emulsifiers: Milk Proteins."

Woodie P. Williams Jr (Hd) presented a paper, "Prediction of Nutritional Quality of Fish Meals from Amino Acids Profiles and Available Lysine Determinations" at the annual Fisheries Symposium of the National Fish Meal and Oil Association meeting in Washington, DC, March 19.

Kurt Ladenburg (Vstg Prof) lectured

before a joint session of engineering societies in Charlotte, NC, March 20. The topic was "Gasohol and the Energy Crisis."

Robert F. Borgman (Prof) was elected to membership in La Societe Canadienne De Nutrition (The Nutrition Society of Canada).

4-H (EXTENSION)

Russell Roberts (Asst Prof and State 4-H and Youth Development Coordinator) recently completed requirements for certification as a camp director. The program is sponsored and conducted by the National American Camping Association.

HISTORY

Leonard Greenspoon (Asst Prof) presented a paper, "The Social Environment of Post-Biblical Judaism and the Attitudes towards Fighting on the Sabbath," at the South-eastern Regional Meeting of the American Academy of Religion/Society Biblical Literature March 14 at Louisville, KY.

Charles H. Lippy (Asst Prof) chaired one session and offered comment on three papers at the annual meeting of the American Academy of Religion, Southeastern Region, in Louisville, KY, March 13-15. He also serves as program chairman for the "Religion in America" section.

J. V. Reel Jr. (Prof) has been named a trustee of the Opera for Youth Foundation, a Foundation of the National Opera Association and the Aesthetic Education Committee, Kennedy Center. The term is for three years.

William Maker (Asst Prof, Philosophy) presented a paper, "Science as Value Free and the Ethos of Technology," at the annual meeting of the South Carolina Society for Philosophy March 22 at the University of South Carolina.

J. Lawrence McCollough (Asst Prof, Philosophy) was elected vice president of the South Carolina Society for Philosophy

March 22 at the University of South Carolina.

Richard M. Golden (Asst Prof) conducted a seminar, "Reconsidering the Frondes," at the annual convention of the Society for French Historical Studies, Washington, DC, March 21.

D. G. Paz (Vstg Asst Prof) published an article, "Popular Anti-Catholicism in England, 1850-1851," in Albion, XI (1979), 331-59.

HORTICULTURE

E. T. Sims Jr. (Prof) reviewed "Handling, Transportation and Storage of Fruits and Vegetables," Volume 1, 2nd Edition: "Vegetables and Melons," by A. Lloyd Ryall and Werner J. Lipton-Avi in Horticultural Research 19 (2): 85.

INDUSTRIAL MANAGEMENT

Carl Gooding (Assoc Prof) has been elected vice president for planning for the South-eastern American Institute for Decision Sciences. In addition, he has been selected to serve as chairman of the quantitative methods and applications track for the 1981 meeting. Prof. Gooding chaired the session on "Human Resource Scheduling Models" at the 1980 meeting in Orlando, FL, Feb. 19-22.

Earl W. Arp (Assoc Prof) has published the following papers: 1) "Worker Exposures to Chemical Agents in the Manufacture of Rubber Tires: Solvent Vapor Studies," (co-authored with Mark Van Ert, University of Arizona); 2) "Worker Exposures to Chemical Agents in the Manufacture of Rubber Tires: Particulates," (co-authored with Ted Williams, University of North Carolina), American Industrial Hygiene Association Journal, 41 (3): 204-219, 1980; 3) "Stomach Cancer Among Rubber Workers: An Epidemiologic Investigation," Dusts and Disease, pages 325-334, Pathotox Publishers, 1979, (co-authored with Steve Blum, Mount Sinai School of Medicine).

Gerald L. Waddle (Assoc Prof) was chairperson for a session on "International Business Options for Small Business," at the National Small Business Institute Directors Association Conference held in Miami, FL, March 6-8.

MATHEMATICAL SCIENCES

J. V. Brawley (Prof) was one of the invited speakers at the N.S.F. sponsored Auburn Matrix Theory Conference held in Auburn, AL, March 18-22. Professor Brawley spoke on a paper co-authored by Max Hankins (Grad Stu) entitled "On the Distribution by Rank of Bases for Vector Spaces of Matrices."

Thomas A. Carnevale (Vstg Prof) gave a talk at the New Jersey Section of the Council of Teachers of Mathematics March 15 in Cherry Hill, NJ. His talk was titled "Applications of Mathematics for the Non-Science Student."

John D. Fulton (Prof and Hd) and S. M. Lukawecki (Prof) presented talks at Hemingway and Dillon High Schools March 4-6. Prof. Fulton's talks were entitled "What Mathematicians Do - Operations Research," and Prof. Lukawecki spoke on the subject "Career Opportunities in the Mathematical Sciences." On March 27 Prof. Lukawecki gave his talk to the Math Club at T. L. Hanna High School in Anderson.

Robert Jamison (Assoc Prof) attended the XIth Southeastern Conference on Combinatorics, Graph Theory, and Computing held in Boca Raton, FL, March 3-7. He presented a paper, "Copoints in Antimatroids." Richard D. Ringeisen (Assoc Prof and Assoc Hd) gave a talk, "On Psuedosurface Imbeddings of $K(m,n)$ and Certain Joins of Graphs," at the Conference, and Douglas R. Shier (Vstg Assoc Prof) presented a paper, "On Chordal Graphs," co-authored by Renu Laskar (Prof).

John Kenelly (Prof) attended the Rocky Mountain Mathematics Consortium Conference on Evaluation of Introductory College Mathematics Programs March 7-8 at Tempe, AZ. He presented one of the eight hour

talks at the conference, "National Testing and Placement Programs." On March 18-19 Prof. Kenelly served on the NASDTEC Committee to evaluate the Teacher Education Program at Converse College in Spartanburg.

Prof. Laskar participated in the International Symposium on Combinatorics and Graph Theory held at the Indian Statistical Institute in Calcutta Feb. 25-29. Prof. Laskar gave an invited talk, "Domination Related Concepts in Graph Theory," at the Symposium and chaired one of the sessions. While in India she gave the following seminars: "Some Finite Geometries" at the Statistical Institute, Calcutta; "Domination Theory in Graphs" at the Indian Institute of Technology, New Delhi; and "Geometries and Design" at the University of Udaipur.

Prof. Lukawecki has been named chairman of the Nominating Committee for the Annual Meeting of the Southeastern Section of MAA (Mathematical Association of America).

T. G. Proctor (Prof) gave a talk to the Mathematics Dept. at West Virginia Univ. in Morgantown, WV, March 7. The talk was titled "Educational Programs in the Mathematical Sciences - A Report on the N.S.F. Project at Clemson." Prof. Proctor gave this same presentation to the Math Club at Furman University last fall.

Douglas R. Shier (Vstg Assoc Prof) received the 1979 Award in Mathematics and Computer Science from the Washington Academy of Sciences. Such awards are given annually to recognize noteworthy accomplishments in various fields by scientists under the age of forty.

K. T. Wallenius (Prof), K. Alam (Prof) and K. M. Saxena (Vstg Prof) attended the Joint Spring Meeting of the Biometric Society, Institute of Mathematical Statistics and American Statistical Association March 11-14 in Charleston. Prof. Wallenius presented a paper, "Empirical Model Building and Subsequent Inference Using the Same Data."

Daniel D. Warner (Assoc Prof) visited

the Mathematics Research Section of Union Carbide Corp. at Oak Ridge, TN, March 17-18 and gave a talk, "The Geometry of Rational Approximation."

PHYSICS AND ASTRONOMY

John R. Ray (Prof) recently published an article, "Presence of Tachyons in Classical Relativity," in Lett. Nuovo Cimento 27, 32 (1980).

Philip B. Burt (Prof) published a paper, "Exact Solutions of Nonlinear Generalizations of the Wave Equation," in the Journal of Mathematical Analysis and Applications, January 1980, volume 73, page 49.

An extended abstract of the paper "Ionic Transport in Ammonium Bromide" by A. L. Laskar (Prof) and B. E. Taylor (Former Grad Stu) is published in the Proceedings of the Third Europhysics Conference on Lattice Defects in Ionic Crystals (page A64), Sept. 17-21, 1979, Canterbury, U.K.

H. W. Graben (Prof) and R. J. Roedersheimer (Former Grad Stu) have published a paper, "On Two- and Three-body van der Waals Interactions" in J. Phys. B: Atom. Molec. Phys. 13, 291 (1980).

Prof. Graben presented a colloquium March 17 at the Oak Ridge National Laboratory entitled "Derivation of a New Ensemble from Generalized Ensemble Theory." The talk was based on research done in collaboration with J. M. Haile (Asst Prof) in the Department of Chemical Engineering.

Prof. Laskar attended the American Physical Society Meeting held at New York March 25-27 and presented a paper, "Anisotropic Diffusion in the Tetragonal KN_3 and RbN_3 Crystals," co-authored with P. A. Cardegna (Grad Stu), W. J. Mealing (Former Grad Stu) and D. L. Foster (Former Grad Stu).

Burt V. Bronk (Prof) published a paper, "Some Inequalities for Moments and Coefficients of Variation for a Large Class of Probability Functions," in J. Appl. Prob. 16, 665-670 (1979).

POLITICAL SCIENCE

Michael Morris (Asst Prof) lectured March 25 at the Latin American Institute of the University of Stockholm on Latin American Navies.

Martin Slann (Assoc Prof) has reviewed The Population of Israel (New York: Columbia Univ. Press, 1979) by Dov Friedlander and Calvin Goldscheider in Perspective, Vol. 9, No. 1 (January/February, 1980), 28-29.

PROFESSIONAL DEVELOPMENT

Hassan M. Behery (Assoc Prof, Text) is chairperson for a two-day conference, "Upholstery: From Start to Finish," to be held on campus May 7-8.

J. Wayne Patterson (Asst Prof, IM) is chairperson for a two-day seminar, "How to Buy and Use a Business Minicomputer," to be held at the Ramada Inn in Greenville May 12-13.

Jean Woodruff (Instr, IM) is chairperson for a two-day workshop, "Letter and Report Writing Workshop," to be held May 13-14 on campus.

J. Michael McDonald (Asst Prof, IM) is the lecturer for a one-day seminar, "Professional Development for Secretaries," to be held May 15 at the Radisson Plaza in Charlotte, NC.

PSYCHOLOGY

Leonard Berger (Assoc Prof) and Carol Furry (Asst Prof) presented a paper, "Issues, Planning and Implementation of a Retirement Program" at the 1st Annual Meeting of the Southern Gerontological Society, Atlanta, Feb. 20.

The following members of the faculty participated in the 26th Annual Meeting of the Southeastern Psychological Association held in Washington, DC, March 26-29.

Prof. Berger presided in a symposium,

"Pedagogical Methods in Undergraduate Industrial Psychology," and also presented a paper on integrating textbook and industrial material.

Jerry Frey, Rosemary Lowe and Norman Schultz (Asst Profs) presented a symposium, "A Social Psychological View of Parents, Babies, and Lamaze Childbirth: Attitudes and Behaviors."

Patrick Gill (Vstg Asst Prof) presented a paper, "Effects of Informing Parent and Child of a Standard of Honesty in Training Self-Control."

David Senn (Assoc Prof) presented an invited address, "The History of Theoretical Ideas in Social Psychology."

SOCIOLOGY

Richard F. Larson (Prof and Hd) is co-author with Gerald R. Leslie and Benjamin L. Gorman (both Univ of Florida) of Introductory Sociology: Order and Change in Society (third edition) published by Oxford University Press.

Christopher M. Sieverdes (Assoc Prof) was co-author of two papers, "Channeling Males and Females to Juvenile Court: A Descriptive Comparison" and "Sexual Victims in Juvenile Correctional Institutions," presented at the annual meeting of the Academy of Criminal Justice Sciences in Oklahoma City March 12-14. At these meetings, Mervin F. White (Assoc Prof) served as a member of the Program Committee, co-authored two presented papers, "Organizational Effects on Labeling:

Some Implications" and "Intra-Family Violence: The Effect of Past Experience on Present Practice," participated in a roundtable discussion and presented his paper, "The Justice Claims of Prisoners: A Modest Proposal."

Three members of the Sociology faculty were on the program of the annual meeting of the Southern Sociological Society held in Knoxville, TN, March 26-29. Prof. Sieverdes presented a paper, "Non-Legal Factors Influencing Dispositions of Juveniles for Consecutive Offenses." A paper entitled "The Effect of Sex-Role Attitudes on Anticipated Status Attainment Outcomes: A Comparison of Women in Typical and Atypical Curriculums," co-authored by Susan S. Brown (Asst Prof), was presented. William M. Wentworth (Asst Prof) was a discussant for the Sociology of Religion Section.

TEXTILES

Hassan M. Behery (Assoc Prof) and Joyce Monson (Grad Stu) attended the INDA (International Nonwovens and Disposable Association) Symposium at Kissimmee, FL, March 19-21. Prof. Behery presented a paper, "Criteria for Design of Some Filter Fabrics," which will be published in the Symposium Proceedings.

ZOOLOGY

Darrell G. Yardley (Asst Prof) has recently been awarded a three-year National Institute of Health grant for \$154,183. The grant funds research on the amylase system of Drosophila pseudoobscura.

Calendar of Campus Events

MAY

- 1-9 -- Art Exhibition: "MFA Thesis Show." Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 1 -- Workshop: "Nursing Patients with Burns." Sponsored by Continuing Education Department of College of Nursing, call 656-3078 for more information.
- 1-2 -- Workshop: "Determining Terrestrial Solar Cell Reliability." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 3-4 -- Baseball: Virginia Tech, here, 2 p.m.
- 6-7 -- Workshop: "Digital Signal Processing." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 7-8 -- Workshop: "Contemporary Load-Bearing Brick Masonry Construction." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 7-8 -- Workshop: "Upholstery: From Start to Finish." Sponsored by Professional Development, call 656-2200 for more information.
- 8 -- Workshop: "Acute Stroke and the LPN." Sponsored by Continuing Education Department of College of Nursing, call 656-3078 for more information.
- 8 -- General Faculty Meeting, Littlejohn Coliseum, 10 a.m. Faculty are urged to sit in the chairs placed on the Coliseum floor for this meeting.
- 9 -- Commencement, Littlejohn Coliseum, 11 a.m.
- 9 -- Air Force and Army Commissioning Exercises, Daniel Hall Auditorium, 9 a.m.
- 10-- All residence halls close at 8 a.m.
- 12-13-- Workshop: "Letter and Report Writing Workshop." Sponsored by Professional Development, call 656-2200 for more information.
- 12-14-- Seminar: "Membrane Separation Technology." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 12-15-- Workshop: "Short School for Water and Wastewater Operators." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 13-14-- Workshop: "Teaching and Evaluating the Clinical Nursing Laboratory." Sponsored by Continuing Education Department of College of Nursing, call 656-3078 for more information.

CALENDAR OF EVENTS (Cont.)

13-14-- Workshop: "Effective Public Speaking." Sponsored by Professional Development, call 656-2200 for more information.

14-15-- Workshop: "PL/M Programming." Sponsored by Continuing Engineering Education, call 656-3308 for more information.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

May 1, 1980

Vol. 19 No. 17

CLEMSON UNIVERSITY
SOUTH CAROLINA 29634

APR 30 1980

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



FACULTY INVITED TO DROP-IN HONORING DEAN VICTOR HURST

Immediately following the May 8 General Faculty Meeting at 10 a.m. in Littlejohn Coliseum, a faculty drop-in honoring Dean Victor Hurst will be held on the Coliseum grounds.

President Atchley will speak briefly, and Dean Hurst will reminisce and reflect on his years at Clemson.

All faculty members are cordially invited and urged to make plans to attend.

1980 GOOD HEALTH APPEAL SUCCESSFUL

Melvin E. Barnette, vice president for business and finance and chairman of the Second Annual Good Health Appeal, announced that this year's health drive was extremely successful.

"My personal thanks to the many Clemson University employees who participated in this year's campaign. Your generous gifts have resulted in over \$11,000 in donations to these worthwhile organizations," Barnette said.

Barnette said that he was particularly pleased that so many people saw fit to give something despite economically tough times and added that it was the large number of people giving rather than the size of the gifts that was the determining factor in Clemson's large contribution this year.

"Your gifts will play an important part in improving the vital work of these important agencies and their lifesaving works," he said.

The 13 agencies benefiting are:

American Cancer Society, American Diabetes Association, American Heart Association, Arthritis Foundation, Cystic Fibrosis Foundation, Muscular Dystrophy Association, National Assn. for Retarded Citizens, National Assn. for Sickle Cell Disease, National Easter Seal Society for Crippled Children and Adults, National Foundation--March of Dimes, National Hemophilia Foundation, National Kidney Foundation, National Multiple Sclerosis Society.

Governor Riley authorized only two campaigns aimed at state employees -- the United Way each fall and the Good Health Appeal each spring. Late contributions are still being accepted and should be sent to Barnette's attention.

WORKSHOPS AND SEMINARS OFFERED TO FACULTY AND STAFF

The University Counseling Center is offering three seminars and workshops for faculty and staff members during the break between spring semester and summer school. These seminars will be conducted by staff members of the Counseling Center.

A stress management seminar, introducing participants to strategies useful in coping more creatively and effectively with the stresses of modern life, will be offered in two sessions May 6 and 8 from 9:30 to 11:00 a.m. Participants will be taught physical and cognitive coping skills as well as related principles in self-control, nutrition and exercise.

A workshop on effective interpersonal skills will cover the following topics: 1) effective communication with co-workers; 2) resolving conflicts with co-workers, students and supervisors; 3) appropriate expression of feelings, opinions and beliefs; and 4) making requests and other assertive skills. The workshop will be held May 13 and 15 from 9:00 a.m. to noon.

A time management seminar will give participants the opportunity to learn to use their 24 hours more advantageously. Through the use of the methods presented, participants will be able to set objectives more clearly, to make more efficient plans, to set better priorities, to deal with deadlines, and to increase flexibility while decreasing procrastination and indecision. The seminar will be held May 14 from 1:30 to 3:30 p.m.

Enrollment will be limited to 15 participants for each group. Call 656-2451 to register or obtain additional information.

PHONE NUMBER CORRECTION FOR STUDENT-STAFFED SECURITY FORCE

As was reported in the last issue of the Newsletter, the University Police Department is offering special security-oriented services to departments, offices and organizations through its student employment program.

The Newsletter incorrectly listed a phone number for obtaining more information. If you are interested in learning more about the services provided by the student-staffed auxiliary police force, contact Ptl. M.W. McCrary at 656-2222, or Lt. Sara Roach, Sgt. Rick Thompson or Sgt. Erv Poole at 654-4197.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

J. F. Pittman (Prof), S. R. Pettigrew (Vstg Instr), D. P. Helmreich (former Vstg Instr) and G. J. Wells (Asst Prof) published two proceedings articles, "Technical Assistance Programs for Direct Marketing" and "The Tomato Subsector as an Alternative for Limited Access Farmers," in Marketing Alternatives for Small Farmers: Fruits and Vegetables, Bulletin Y-148, National Fertilizer Development Center, TVA, Muscle Shoals, AL, pp. 22-25 and 144-149.

AGRICULTURAL ENGINEERING

R. O. Hegg (Assoc Prof), C. L. Barth (Prof), T. G. King (Instr) and W. H. Livingston Jr. (Grad Stu) attended the Fourth International Symposium on Livestock Wastes in Amarillo, TX, April 15-17. Papers presented were:

--"Practical Poultry Manure Management with Hydraulic Transport and Land Application" by Instr. King, Prof. Barth and G. P. Monroe Jr. (Poultryman).

--"Management Aspects of Applying Poultry or Dairy Manures to GrassLand in the Piedmont Region" by V. L. Quisenberry (Assoc Prof, Agron and Soils), Prof. Hegg, L. E. Reese (Grad Stu), J. S. Rice (Assoc Prof, Agron and Soils) and A. K. Torrence (Asst Chem and Hd, Agr Chem Svc).

--"Hydraulic Transport and Irrigation of Wastes from a 700-Cow Dairy" by Prof. Barth, Prof. Quisenberry and A. K. Torrence.

--"Manurial Nitrogen Management in the Southeastern Coastal Plain" by Prof. Quisenberry and Prof. Barth.

--"Terraced Pasture for Disposal of Dairy Yard Runoff" by W. H. Livingston and Prof. Hegg.

CHEMISTRY AND GEOLOGY

The following research papers by Clemson geology faculty and co-investigators were presented at the 29th annual meeting of the Southeastern Section of the Geological Society of America March 27-28 at Birmingham, AL.

-- David S. Snipes (Prof), "Ground Water in the Piedmont of Northwestern South Carolina."

-- John R. Wagner (Instr), "Comments on Lower Silurian Stratigraphic Relationships in Northwestern Tennessee and Southwestern Virginia."

-- Vaneation Price Jr. (Savannah River Lab), R. Bruce Ferguson (Savannah River Lab) and Villard S. Griffin Jr. (Prof),

"Use of NURE HSSR Data for Resource Studies of Rare-Earth Minerals."

The following research paper was presented at one of the Geology Sessions of the South Carolina Academy of Science March 29 at Charleston:

-- F. Jackson Bynum (Stu) and Prof. Griffin, "A Large Pegmatite Dike near Antreville, SC."

CIVIL ENGINEERING

J. Edwin Clark (Assoc Prof) gave a briefing on traffic accident problem areas in South Carolina to the newly-appointed members of the Governor's Highway Safety Committee in Columbia March 24.

EXTENSION 4-H

David Pyle (Assoc Prof, Animal Sci and State 4-H Leader) conducted two workshop sessions at the Southeastern Conference on Evaluating Cooperative Extension Programs held recently in Orlando, FL. His sessions were entitled "Assessing Educational Needs" and "Determining Program Impact."

EXTENSION HOME ECONOMICS

Janice R. McRee (Asst Prof) has been selected as one of three state representatives from the Southern Region to participate in program reviews across the country. In preparation for these reviews, McRee attended a training meeting in Washington, DC, March 4-5. This assignment is for a three-year period.

FORESTRY

R. L. Hedden (Assoc Prof) presented a seminar, "Logistic Regression Versus Normal Discriminant Analysis," at Virginia Polytechnic Institute and State University March 31.

C. L. Lane (Prof), N. R. Page (Hd,

Emeritus, Agric Chem Serv), B. R. Smith (Assoc Prof, Agron and Soils), A. T. Shearin (Instr) and R. O. Hegg (Assoc Prof, Agric Engr) co-authored a publication, "Municipal Sewage Effluent Application to Soils Bearing Hardwood Coppice and Loblolly Pine Stands," as Water Resources Research Institute Report No. 85.

D. L. Ham (Assoc Prof) was recently installed as Southern Chapter President of the International Society of Arboriculture at the annual meeting held in Tampa, FL.

The following papers were presented at the Annual Meeting of the Association of Southeastern Biologists held at Tampa, FL:

-- J. D. Jones (For Aide) and G. T. Weaver (Assoc Prof, Southern Illinois Univ), "Calcium Concentrations in Stem Bark of Quercus spp."

-- J. D. Jones, Prof. Weaver and R. G. Brown (U.S. Geological Survey), "Nutrient Contents and pH of Precipitation in Oak and Mixed Hardwood Forest Ecosystems."

-- S. M. Jones (Res For) and D. H. Van Lear (Prof), "Pine Communities of the Savannah River Plant in Aiken, Barnwell, and Allendale Counties, South Carolina."

HISTORY

Edwin E. Moise (Vstg Asst Prof) has been elected to the Vietnam Studies Committee of the Association for Asian Studies.

Joseph L. Arbena (Assoc Prof) has published with Henry Schmidt (Texas A & M) and David Vassberg (Pan American) Regionalism and the Musical Heritage of Latin America (Austin: Institute of Latin American Studies, Univ. of Texas, 1980).

Richard M. Golden (Asst Prof) published a review of Arthur Mandel's The Militant Messiah or The Flight from the Ghetto: The Story of Jacob Frank and the Frankist Movement in History: Reviews of New Books, 8 (Feb., 1980), 86.

E. M. Lander Jr. (Alumni Prof) reviewed Rances Leigh Williams' A Founding Family:

The Pinckneys of South Carolina (New York, 1978) in the Mississippi Quarterly, Winter 1980, pp. 111-12.

INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) has published a paper, "EPR Study of Free Radicals in PMMA Bone Cement: A Feasibility Study," in Biomaterials, Medical Devices and Artificial Organs, 8 (1), 23-33 (1980), co-authored with R. C. Turner (Assoc Prof, Physics and Astronomy) and P. E. Atkins (Grad Stu, Physics and Astronomy).

F. W. Cooke (Prof and Hd) has been appointed an adjunct professor of Biophysical Dentistry at the Medical University of South Carolina, Charleston.

Prof. Cooke and Prof. Park recently served as session chairmen at the First World Biomaterials Conference held in Vienna, Austria, April 8-12.

Prof. Cooke was appointed chairman of the Awards Committee of the Biomaterials Research Workers Society. Prof. Park was appointed chairman of the Membership Committee.

LIBRARY

Three librarians participated in a meeting in Columbia March 28 held by the South Carolina Library Association's Online Users Group. They were: Francisco M. Diaz, Kenneth Murr, and Laurence Kelland (reference librarians, Science, Technology, and Agriculture Service).

Francisco M. Diaz participated in a panel discussion comparing three vendors of online bibliographic retrieval services. He described the features of the Lockheed DIALOG Bibliographic Retrieval System which is available at the Clemson University Library. Other systems discussed were Bibliographic Retrieval Services (BRS) and System Development Corporation's SDC ORBIT IV (also available in the Library).

Kenneth Murr spoke on "Natural Word

Searching," i.e., how to use natural words as part of a search strategy when using the computer to retrieve literature citations. He also provided tips and advice on the pitfalls of natural word searching.

Laurence Kelland reviewed the BIOSIS PREVIEWS database describing its special features. BIOSIS PREVIEWS is the online magnetic tape version of Biological Abstracts and BioResearch Index.

MATHEMATICAL SCIENCES

J. V. Brawley (Prof) has presented talks at two universities recently. On March 31 he gave a talk at Maryville College in Maryville, TN, entitled "The Gambler's Ruin: An Excursion into Applied Mathematics," and on April 9 he gave a talk at the College of Charleston on "Mathematics and Secret Message Writing."

Thomas A. Carnevale (Vstg Prof) was in Pocatello, ID, April 20 as a guest at the Idaho State University's Mathematics Department where he gave a seminar on "Applications in Management and Economics." The seminar was combined with a trip to Seattle, WA, to attend the Annual Meeting of the National Council of Teachers of Mathematics. He also gave a talk at that meeting entitled "Applications in Basic Skills Mathematics."

Robert E. Jamison (Assoc Prof) was invited colloquium speaker at the Mathematics Department of the University of Arkansas, Fayetteville, March 10. He gave a talk on "Matroids, Oriented Matroids, and Antimatroids."

John Kenelly (Prof) chaired a meeting of the College Board's Advanced Placement Mathematics Committee at Clearwater Beach, FL, March 27-30. On March 28 the University of South Florida and the College Board sponsored a conference for the Florida Advanced Placement Mathematics teachers at Tampa, FL. At the conference, Prof. Kenelly presented one of the general session lectures, and the College Board film about Advanced Placement in South Carolina and Clemson University was shown.

Renu Laskar (Prof) published the following papers in the Proceedings of the Tenth Southeastern Conference on Combinatorics, Graph Theory and Computing: "Some Results on Path Numbers of Some Digraphs" (joint with William G. Frye, former grad stu); and "Partial d-Space."

Stanley Lukawecki (Prof) was invited to Erbbardt High School in Bamberg April 17 to give a talk, "Career Opportunities in the Mathematical Sciences." On the same trip, Prof. Lukawecki and Richard Ringeisen (Assoc Hd and Assoc Prof) consulted with administrative personnel, teachers and students of Mims Academy in Harleyville concerning Clemson's mathematical sciences programs and the 1980 Annual High School Mathematics Examination administered by Prof. Lukawecki.

Fred Morgan (Asst Prof) and K. T. Wallenius (Prof) with graduate students Susan Marshall, Brian Gray and Tasos Korkotsides attended the Second Annual Meeting of the South Carolina Chapter of the American Statistical Association in Columbia April 11. The following contributed papers were presented: Brian Gray (Grad Stu) talked on "G-Optimality in Simple Linear Model Design"; A. K. Korkotsides (Grad Stu) with Prof. Wallenius, "On the Width of the Prediction Interval as a Criterion for the Screening of Variables in Multiple Linear Regression"; Susan W. Marshall (Grad Stu) and Prof. Morgan, "A Test for Symmetry Based on the Wilcoxon Rank Sum Test"; and Prof. Wallenius with T. B. Edwards (J. P. Stevens Co., former Grad Stu), "Exact Tests for the Significance of R^2 and F in Best Subset Multiple Regression Problems." In addition to the contributed papers given, Prof. Wallenius gave the address to the Annual Business Meeting of the Chapter. His talk was on "Balanced Sampling with Sole Source Contract Negotiations."

James A. Reneke (Assoc Prof) gave a colloquium talk at Georgia Tech April 10 on "System Identification for Hereditary Systems from Input-Output Data."

On March 11 and 12 members of the faculty attended the Mathematical Association

of America's Meeting at Appalachian State University in Boone, NC. They sponsored six undergraduate math students at the meeting, as well as giving talks. Those faculty participating were T. A. Carnevale (Vstg Prof), John Kenelly (Prof), Prof. Lukawecki, Gene Park (Assoc Prof) and Daniel D. Warner (Assoc Prof). At this meeting Prof. Kenelly relinquished the post of president of the Southeastern Section of the MAA. Prof. Warner was named section lecturer for the next MAA SE Sectional Meeting and member of the Section Executive Council. Prof. Lukawecki served on the Section Nominating Committee.

MECHANICAL ENGINEERING

W. E. Castro (Prof) and P. B. Zielinski (Prof and Dir, Water Res Res Inst) are co-authors of a paper, "Pumping Characteristics of Small Airlift Pumps," that was presented at the Aquaculture '80 Conference held in New Orleans, LA, March 5-8. The paper will also be published in the Conference Proceedings.

MUSIC

Lillian U. Harder (Instr) was guest artist at Coker College April 12 when she presented a solo piano recital at the annual Alumnae Day activities.

NURSING

Results were just received from the National State Board testing service for the examination taken in July 1979. Sixty-eight graduates of the Baccalaureate Degree Program wrote the State Board Test Pool Examination (SBTPE) for Registered Nurses. There are five tests in the SBTPE, a national examination used by all State Boards of Nurses. The percent of Clemson's Baccalaureate Degree Program graduates who passed these five tests ranged from 86.8% to 95.6%. The mean scores of Clemson's graduates were higher than the mean scores for graduates of all South Carolina nursing programs on all except one test.

PROFESSIONAL DEVELOPMENT

Claire O. Caskey (Assoc Prof, Engl) is lecturer for a one-day workshop, "Effective Writing Skills for Secretaries," to be held May 21 on campus.

J. C. Hubbard Jr. (Prof, Text) and Hassan Behery (Assoc Prof, Text) are course chairpersons for a three-day seminar, "Fundamentals of Textiles," to be held at Clemson May 20-22.

Carl Gooding (Assoc Prof, IM), Earl Burch (Prof, IM), Claude S. Simpson Jr. (Instr, IM) and George Worm (Assoc Prof, IM) are lecturers for a two-day seminar, "Improved Planning and Control Through

CPM/PERT," to be held May 26-27 on campus.

J. Michael McDonald (Asst Prof, IM) is lecturer for a one-day seminar, "Professional Development for Secretaries," to be held May 30 in Boone, NC.

RECREATION AND PARK ADMINISTRATION

G. Wesley Burnett (Asst Prof) presented a paper, "Environmental and Political Factors in the Selection of the Montana Land Grants," at the annual meeting of the Association of American Geographers, Louisville, KY, April 13-16.

Calendar of Campus Events

MAY

- 17 -- Workshop: "Pediatric Emergencies." Sponsored by Continuing Education Department of College of Nursing. Open to registered nurses only, pre-registration required. Call 656-3078 for more information.
- 18 -- Residence halls open at 10 a.m.
- 19 -- Registration, 1st session summer school.
- 19-23,-- College Week for Senior Citizens. Offers elderly South Carolinians a
26-30 variety of educational and recreational opportunities ranging from gardening and estate planning to crafts and yoga. Co-sponsored by the South Carolina Commission on Aging and the Department of Recreation and Park Administration. Call 656-2477 for more information.
- 20 -- Classes begin, 1st session summer school.
- 20-22 -- Workshop: "Fundamentals of Textiles." Sponsored by Professional Development, call 656-2200 for more information.
- 21-22 -- Conference: "Conference and Exhibit on Small Computers." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 21 -- Workshop: "Effective Writing Skills for Secretaries." Sponsored by Professional Development, call 656-2200 for more information.
- 26-6/16- Art Exhibition: "State Art Collection Show. An exhibition of work by South Carolina artists represented in the State Art Collection circulated by the State Museum Commission. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.

CALENDAR OF EVENTS (Cont.)

27-29 -- Workshop: "Life Cycle Cost Analysis for Engineering Decision Making."
Sponsored by Continuing Engineering Education, call 656-3308 for more
information.

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May 15, 1980
Vol. 19 No. 18

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



CLEMSON
UNIVERSITY

MAY 15 1980

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ACADEMY

PRESIDENT

May 15, 1980

TO THE FACULTY AND STAFF:

I would like to express my sincere thanks to all of you for everything you did to make the inaugural festivities such a memorable occasion for me, my family, and for the hundreds of alumni and other special guests who visited the campus the week of April 18th.

It's a pleasure to pass along to you the many, many compliments we heard from out-of-state visitors who told us how much they appreciated the great courtesy and hospitality, and the friendly spirit you showed in making them feel right at home on this campus.

I want to re-emphasize that this first inauguration in Clemson's history was not an affair for Bill Atchley. It was a celebration for the entire Clemson Family, and it was an effective way of introducing people throughout this country to the quality programs--and the quality people--we are fortunate to have on this campus.

From Pat and myself, thanks again for all your efforts, your warm support and your best wishes.

Sincerely,

Bill L. Atchley

DINNER TO HONOR DEAN LABECKI

About 100 people will gather May 17 at the Holiday Inn in Clemson to honor Dean Geraldine Labecki, who retires this summer after 12 years as dean of the College of Nursing.

Dean Victor Hurst, vice president for academic affairs, will preside at the dinner, which will include tributes from present and former colleagues and students.

R. C. Edwards, retired Clemson president, and Virginia Phillips, retired director of public health nursing with the state Department of Health and Environmental Control, will also speak.

All nursing students, alumni, faculty, staff and friends of nursing are invited to attend.

TWO PROFESSORS RECEIVE AWARDS

Two Clemson professors have been honored by their students and colleagues as outstanding educators.

J. C. Hubbard, textile professor, has been named distinguished professor of the year by Clemson's Iota chapter of Phi Psi, the national fraternity of textile students and professionals. Don Sloan, poultry science professor, was given the outstanding teacher award by the Clemson chapter of Gamma Sigma Delta, the honor society of agriculture.

Hubbard, who has just completed his 33rd year of teaching at Clemson, earned his M.S. in textile science at Georgia Tech in 1950. He was named professor of textile science at Clemson in 1970.

"Professor Hubbard was our unanimous choice," said Cathy Marie Ross, Phi Psi president and a senior majoring in textile technology. "In the classroom he is very efficient, knowledgeable and communicates well, and everyone knows that his office door is always open."

Hubbard's course in the ancient textile art of hand-weaving is one of the most

popular in the College of Industrial Management and Textile Science.

Sloan, an Arkansas native, came to Clemson in 1976 from the Diamond Shamrock Corp., which produces animal feed supplements and medication.

He brings his business experience and knowledge to courses he teaches in poultry industry management, and calls himself "a great promoter of poultry."

"The poultry industry has done a great service to mankind," Sloan says. "Most of what we know today about vitamins and human nutrition was learned through research on poultry nutrition."

COLLEGE AND DEPARTMENTAL SELF-STUDY COMMITTEE CHAIRMEN NAMED

The Steering Committee for the University's Self-Study has named members to the college and departmental committees which will work toward renewing accreditation by the Southern Association.

As many as 75 committees involving almost 600 committee members may eventually be at work between now and the end of the Self-Study in April 1981.

Chairmen of college and departmental committees are:

COLLEGE OF AGRICULTURAL SCIENCES

College Committee--G. E. Carter, Jr.

Plant Pathology & Physiology--G. E. Carter, Jr.

Agricultural Chemical Services--A. K. Torrence

Agricultural Economics & Rural Sociology--L. L. Bauer

Agricultural Engineering--R. O. Hegg

Agronomy & Soils--W. D. Graham

Animal Science--D. L. Cross

Dairy Science--G. D. O'Dell

Entomology & Economic Zoology--Ray Noblet

Experimental Statistics--L. W. Grimes

Fertilizer Inspection & Analysis--H. V. Rogers

Food Science--T. C. Titus

Extension 4-H Programs--W. R. Roberts

Horticulture--E. T. Sims, Jr.

Plant Pest Regulatory Service--H. B. Jackson, Jr.
 Poultry Science--R. J. Thurston
 Extension Home Economics Programs--C. T. Mounter
 Seed Certification--J. O. Black, Jr.

COLLEGE OF ARCHITECTURE

College Committee--J. E. Dalton
 Architectural Studies--R. B. Norman
 Building Science--L. H. Brown
 City & Regional Planning--B. C. Nocks
 History & Visual Studies--E. C. Voelker

COLLEGE OF EDUCATION

College Committee--H. E. Morgan, Jr.
 Industrial Education--B. V. Burkette, Jr.
 Elementary & Secondary Education--F. C. Raetsch
 Military Science--W. H. Huff
 Agricultural Education--L. H. Blanton
 Aerospace Studies--D. H. Sattler

COLLEGE OF ENGINEERING

College Committee--J. C. McCormac
 Civil Engineering--B. L. Edge
 Chemical Engineering--J. M. Haile
 Ceramic Engineering--H. G. Lefort
 Interdisciplinary Studies--J. B. Park
 Engineering Technology--D. L. Ryan
 Environmental Systems Engineering--L. G. Rich
 Electrical & Computer Engineering--M. L. Wolla
 Mechanical Engineering--J. L. Gaddis
 Agricultural Engineering--R. O. Hegg

COLLEGE OF FOREST AND RECREATION RESOURCES

College Committee--G. W. Wood
 Forestry--A. B. Dunn
 Recreation & Park Administration--H. J. Grove

COLLEGE OF INDUSTRIAL MANAGEMENT & TEXTILE SCIENCE

College Committee--R. W. Rouse
 Accounting & Finance--J. D. Sheriff
 Economics--W. C. Whitten
 Industrial Management--D. M. Swanson
 Textiles--J. J. Porter

COLLEGE OF LIBERAL ARTS

College Committee--J. M. Melton
 English--J. B. McLaughlin
 History--W. F. Steirer
 Language--G. J. Fernandez

Political Science--M. W. Slann
 Psychology--L. I. Park
 Sociology--C. M. Sieverdes
 Music--E. H. Freeman

COLLEGE OF NURSING

College Committee--G. A. Tanner
 Baccalaureate Program--V. F. Rempusheski
 Associate Degree Program--Leon Roswal

COLLEGE OF SCIENCES

College Committee--W. E. Gettys
 Chemistry--J. L. Von Rosenberg
 Geology--V. S. Griffin, Jr.
 Mathematical Sciences--W. R. Hare
 Physics & Astronomy--E. P. Stillwell
 Biochemistry--G. L. Powell
 Botany--L. A. Dyck
 Medical Technology--M. B. Bishop
 Microbiology--A. W. Baxter
 Zoology--J. P. Wourms
 Computer Science--J. C. Peck
 Freshman Biology Program--S. B. Miller

BIOMEDICAL RESEARCH SUPPORT GRANTS AWARDED

As a result of announcements in the Feb. 1, 1980, issue of the Clemson University Newsletter and Jan. 9, 1980, memorandum and notice to all appropriate deans and department heads, the University Biomedical Research Support Grant (BRSG) Committee received eight applications (proposals) for support under the current University award (\$33,299).

After peer review for scientific merit and consideration of the Committee goals and objectives, the following awards, totaling \$32,556, were made by the Committee.

--G. P. Birrenkott (Poultry Science), Role of Prostaglandins in Hyperthermia, \$3,022;

--E. L. Kline (Microbiology), Procaryotic cAMP Substitutes in B16 Melanoma Regulation, \$6,227;

--J. P. Wourms (Zoology), Viviparous Fish: Maternal-Fetal Nutrient Transfer Models, \$6,925;

--J. R. Brannon (Mathematical Sciences),

A Theory for Measurements of Neural Activity, \$5,342;

--R. H. Hilderman (Biochemistry), Role of Carbohydrates Found on tRNA Synthetase, \$6,000;

--G. H. Kenner (Interdisciplinary Studies), Inhibition of Femoral Head Resorption, \$5,040.

ALCOHOL AND DRUG ABUSE COMMITTEE SEEKS INFORMATION

An Alcohol and Drug Abuse Committee was formed in November 1979 by President Atchley to gather information about practices and attitudes on the campus relating to drinking and drug abuse and about existing programs and needs in this area. The committee will also disseminate information about alcohol and drugs, alcohol and drug use, and alcohol misuse and drug abuse.

The committee is currently gathering information concerning campus programs which deal with alcohol. Anyone aware of such programs is asked to contact Marcia Kiessling at 656-2461.

ACCOUNTING AND FINANCE

G. Thomas Friedlob (Asst Prof) and James A. Turner Jr. (Prof) authored "Criteria for Identifying Corporate Debt and Equity in Corporate Acquisitions," presented at the Charleston meeting and published in abstract in Bulletin of the South Carolina Academy of Science, Vol. XLII, 1980.

C. Don Wiggins (Assoc Prof) presented the following papers: 1) "Current Savings and Loan Assumption Practices in South Carolina" (co-authored by B. Perry Woodside, Asst. Prof.) at the South Carolina Academy of Science meeting March 27 in Charleston; 2) "An Application of PERT to Property Tax Revaluation," also presented at S.C.A.S. with Carl W. Gooding (Assoc Prof, IM); 3) "An Analysis of Criticisms of Using the COMPUSTAT Tapes for a Data Base in Financial Research,"

with R. B. McElreath Jr. (Assoc Prof) presented at the annual meeting of the Eastern Finance Association, April 17, Savannah, GA. Prof. Wiggins also acted as a paper discussant at the E.F.A. meeting.

ALUMNI RELATIONS

Mendal Bouknight, alumni field representative, prepared an article which appeared in the May 1980 issue of CASE Currents. Entitled "Building the Alumni Habit," the article covers the activities of the Clemson Student Alumni Council, which conducts a number of programs serving students, the University and Clemson alumni. The article is part of a series which describes various successful organized alumni relations projects at a number of universities throughout the nation.

ARCHITECTURE

Martin Davis (Asst Prof) attended and participated in the National Conference on Earth Sheltered Design Innovations April 18-19 in Oklahoma City, OK. Prof. Davis presented a co-authored paper, "Light Distribution in Three-Earth-Embanked Houses." The conference was sponsored by the Oklahoma State University Architectural Extension and the Department of Energy.

Prof. Davis and John Jacques (Assoc Prof) were winners of Category A Award (first place) at the Passive Solar Cooling Design Competition held March 7. The competition was sponsored by DOE, Southern Solar Energy Center, in Atlanta, GA. Competition was being run concurrently in four states: Puerto Rico, Louisiana, Oklahoma and South Carolina. Awards were made in two distinct categories: Category A - best design for a marketable residence for construction for a medium bracket home buyer; Category B - best use of innovative passive cooling technology for a single family home. The competition was open to all architects and designers throughout the state.

George Means Jr. (Prof) was awarded the Silver Medal by the Tau Sigma Delta Honor Society for Architecture and the Allied Arts for his significant achievements in the field of teaching, research and public service.

Prof. Means has been approved for Fellowship in the American Institute of Architects. The F.A.I.A. awards ceremony will be held in Cincinnati June 7. There are only 10 practicing architects in the state of South Carolina who have achieved this distinction.

CHEMISTRY AND GEOLOGY

Keith McDowell (Assoc Prof) visited Oak Ridge National Laboratory from April 16-18 and presented a seminar, "Some New Approaches in Quantum Chemistry."

Prof. McDowell also presented a seminar, "Some New Approaches in Quantum Chemistry," at the University of South Carolina April 25.

R. A. Abramovitch (Prof and Hd) went to the State University of Campinas in Campinas, Brazil, at the request of UNESCO to serve as a consultant on the development and consolidation of their postgraduate program in chemistry and, in particular, on the development of research in aromatic and heteroaromatic chemistry for industrial application. He was there from the 12th to the 25th of March inclusive. In addition to the above consultations he gave a short course on "The Chemistry and Industrial Applications of Pyridine and Its Derivatives." He also gave an invited lecture on "Aromatic Substitution by Nitrenes," as well as an invited lecture at the University of Sao Paulo on the topic of "Aspects of Nitrene Chemistry." A detailed report and set of recommendations has now been sent to UNESCO headquarters in Paris.

COUNSELING CENTER

The Counseling Center staff (Lucy Reddick, Fred Steele, John Anderson and Mike Vinson)

held the second annual Career Search Workshop April 12 for high school seniors who will be attending Clemson in the fall. The workshop was designed to aid students in exploration of majors, of careers, and of themselves in an effort to diminish the likelihood of dissatisfaction with their major choice and the need for change later. During the afternoon session, a representative from each college was available to answer questions about the various programs and majors.

ECONOMICS

Benjamin M. Hawkins (Asst Prof) and Ralph D. Elliott (Assoc Prof) published an article, "Union Decertification--Some Recent Trends," Employee Relations Law Journal, Spring 1980.

Bruce Yandle (Prof) and James C. Miller III (Resident Scholar, American Enterprise Institute) published an article, "Benefit/Cost Analysis: New Thermostat for the Regulatory Cauldron," in Business, March-April 1980, Vol. 30, No. 2, pp. 15-18.

Prof. Yandle participated in a symposium, "The New Era in Self-Medication," in Washington, DC, March 31 where he presented an invited paper, "Self-Medication: The Communications Linkage."

ENGLISH

A paper by Joan Bobbitt (Asst Prof), "Truth and Artistry in the Diary of Anais Nin," was read at the Conference on American Women in the Arts: 1880-1980, University of Pittsburgh, March 28-30.

Donald G. Bzdyl (Asst Prof) read "The Uses of Prayer in Old English Narratives" at the 84th Annual Meeting of the Michigan Academy of Sciences, Arts and Letters, Wayne State University, Detroit, March 22.

Bruce Firestone (Asst Prof) read a paper on the film Norma Rae at Elon College as part of a Liberal Arts Forum entitled "Cinema: Reflections of Society,"

April 14-17.

Jere Lee Hodgin (Asst Prof, Drama) read "Prison Theatre: Experiments Onstage and Backstage" at the Southeastern Theatre Conference, Nashville, March 6, and conducted a seminar on "Improving Acting Techniques" at Heatherwood Hall School, Columbia, where he was guest artist at an Arts Festival April 10.

John Idol (Assoc Prof) read "As Revealing as _____: A Sampling of the Usage of Similes in Five American Colleges" at the Southeastern Conference in Linguistics, Memphis State University, March 28. Prof. Idol also read a paper co-authored by David Kesterson (North Texas State University) entitled "Wealth in Their Midst: Bill Nye and Thomas Wolfe Comment on the Asheville Vanderbilts" at the meeting of The Thomas Wolfe Society, Asheville, NC, April 12.

Ronald F. Lunsford (Asst Prof) served as recorder for the session "Journals: Involving the Person in the Process" at the Conference on College Composition and Communication, Washington, March 13-15, and chaired the session "Varieties of English" at the Southeastern Conference on Linguistics, Memphis, March 28-29.

Malcolm Usrey (Assoc Prof) read "Fantasy and Realism in Illustrations for Mother Goose Books" at the Children's Literature Association's annual conference, Baylor University, March 14-16. Prof. Usrey also read "Abel's Island and the Pillars that Endure" at the East Carolina University Conference on Children's Literature, Greenville, NC, April 11-12.

ENVIRONMENTAL SYSTEMS ENGINEERING

Thomas J. Overcamp (Assoc Prof) presented two papers at the AMS/APCA Second Joint Conference on Applications of Air Pollution Meteorology, March 24-27 in New Orleans. The first was "A Wind Tunnel Study of Plume Rise from Two Stacks" which was co-authored by Tsun-Chia Ku (Grad Res Asst). The second was "A Statistical Plume Model with First-Order Decay."

Alan W. Elzerman (Asst Prof) published the following paper with Michael Bacon of the Woods Hole Oceanographic Institution: "Enrichment of ^{210}Pb and ^{210}Po in the Sea-Surface Microlayer," Nature 284: 332-334.

HISTORY

Roger P. Leemhuis (Asst Prof) read a paper, "South Carolina Newspapers and American Foreign Policy in the 1890's," at the South Carolina Historical Association meeting in Columbia April 12.

Charles H. Lippy (Asst Prof) presented a paper, "Billy Graham's 'My Answer:' Agenda for the Faithful," at the annual meeting of the Popular Culture Association in Detroit April 17. He also presented a paper, "The President as Priest: Civil Religion and the Folklore of the American Presidency," and chaired one session at the annual meeting of the American Culture Association in Detroit April 18.

HORTICULTURE

M. LeRon Robbins (Prof) was elected a director of the National Agricultural Plastics Association at the Congress held in Tucson April 13-17.

INDUSTRIAL MANAGEMENT

Paul F. Petersen (Instr) presented a paper and participated in a panel discussion on loss control at the Risk and Insurance Management Society's Annual Meeting in Atlanta, GA, April 16. Three hundred risk managers with premiums under \$1.5 million attended this session.

LANGUAGES

Judith M. Melton (Asst Prof, German) read a paper, "The Crisis of Woman in Hauptmann's Einsame Menschen," at the spring meeting of the Philological Association of the Carolinas.

Leon E. Seamon (Asst Prof, Spanish) has been awarded an NEH Summer Seminar stipend to study romantic individualism with Paul Zweig, Professor of Comparative Literature at C.U.N.Y., New York, NY.

MATHEMATICAL SCIENCES

W. Robert Boland (Prof) served as an Air Force judge at the N.W. New Mexico Regional Science and Engineering Fair March 22 and at the New Mexico State Science and Engineering Fair April 19.

Thomas A. Carnevale (Vstg Prof), a member of the MAA Placement Test Committee, met with the committee in Washington, DC, April 25-27.

John K. Luedeman (Assoc Prof) was an invited speaker at a special session on semigroups and their relationship with other fields at the American Mathematics Society Meeting in Davis, CA. His talk was entitled "Completely Cyclic Projective Monoids."

Stanley M. Lukawcki (Prof) gave talks April 21 at Georgetown Academy in Greenwood to the junior and senior classes and to the Mu Alpha Theta Math Club at Daniel High School April 24. The topic was "Careers in Mathematical Sciences."

MECHANICAL ENGINEERING

Nelson R. Bauld Jr. served as session chairman of the stability session of the 10th Southeastern Conference on Theoretical and Applied Mechanics held at the University of Tennessee April 17 and 18. Prof. Bauld represented Clemson University on the SECTAM Policy Committee.

NURSING

Barbara Barham (Instr) presented two workshops, "The Use of Simulation Games for the Psychiatric Mental Health Nurse," at the Second Southeastern Regional Conference of Psychiatric Health Clinical Nurse Specialists held April 9-11 in

Charleston. She was assisted by Pam Kline (Asst Prof).

PHYSICS AND ASTRONOMY

Raymond C. Turner (Assoc Prof), Patrick E. Atkins (Undergrad Stu) and Joon B. Park (Assoc Prof, Bioeng) published a paper, "EPR Study of Free Radicals in PMMA Bone Cement," in Biomaterials, Medical Devices and Artificial Organs, 8(1), 23-33 (1980).

H. W. Graben (Prof) gave a talk in the Physics Department at North Georgia College April 24. His talk, "On a Poker Chip Simulation of Two-Dimensionable Liquids," was based on research done in collaboration with Eric Graben (R. C. Edwards Junior High School).

John R. Ray (Prof) and Michael Davis (North Georgia College) have published a paper, "Neutrino-Generated Static Space-Times," in Il Nuovo Cimento 55B, 70 (1980).

Prof. Turner is the author of a paper presented by J. B. Park (Assoc Prof, Bioeng) at the World Biomaterials Congress April 8 in Baden, Austria. The paper was titled "EPR Studies of PMMA Bone Cement."

Prof. Turner participated in a workshop on "Measurement of Molecular Motion Using Electron Spin Resonance" at Furman University April 11 and 12. He presented a lecture on "Physics and Toys" at Tri-County Technical College April 23 as part of the dedication ceremonies of their new Science Education Building.

POLITICAL SCIENCE

Horace Fleming (Assoc Prof) presented a paper, "Joining Issues and Academe," at the annual meeting of the Southern Regional Science Association April 13-15 in Savannah.

Walton H. Owens (Assoc Prof) has published an article, "The McClosky 'Conservatism Scale' Reappraised," in Political Methodology, 6 (1979), 129-148.

PROFESSIONAL DEVELOPMENT

J. Michael McDonald (Asst Prof, IM) is lecturer for a one-day seminar, "Professional Development for Secretaries," to be held June 3 in Athens, GA.

Evans A. LaRoche (Prof, IM), Edward A. Vaughn (Prof and Hd, Text) and

Christine W. Jarvis (Asst Prof, Text) are seminar leaders for a two and one-half day seminar, "Textile Testing and Quality Control," to be held at Clemson June 3-5.

Furman R. Gray (Assoc Prof, Acct and Fin) is course chairperson for a conference, "Personal Financial Tax and Investment Planning," to be held June 4-7 at the Hyatt on Hilton Head Island.

RECREATION AND PARK ADMINISTRATION

H. Jesse Grove (Assoc Prof) attended a symposium on "Environmental Interpretive Programs in Higher Education" April 11-13 in Gatlinburg, TN. Prof. Grove was a panel participant regarding "Environmental Interpretive Programs in Higher Education" along with representatives from four southeastern universities. The symposium was co-sponsored by the University of Tennessee and the Tennessee Valley Authority.

Mike Ellerbrock (Instr) presented a paper, "Fundamentals of Recreation Demand Analysis," at the joint spring meeting of the Southeastern Council of Grants Administrators and the Southeastern Council of Outdoor Recreation Planners in Atlanta, GA, April 15-16.

G. Wesley Burnett (Asst Prof) has published with George Schunk, an environmental consultant in Portland, OR, "Preserving Natural Diversity" in Western Wildlands 6(2): 1-5. The article leads an issue devoted to the problems of managing wilderness resources.

TEXTILES

Hassan Behery (Assoc Prof) and Edward A. Vaughn (Prof and Hd) attended the 24th Semi-Annual Meeting of the Southern Textile Fiber Processor Association in Greenville April 12 and presented a seminar, "The Significance of Fiber/Machine Interaction in the Long Staple Processing." The topic was highly accepted by the participants and an invitation was extended to the speakers for the fall meeting of the Association to present in depth the theoretical concepts of the subject.

Prof. Behery and Joyce Monson (Grad Stu) attended the ACS (American Chemical Society) National Meeting in Houston, TX, March 23-28. They presented a paper, "Evaluation of an Engineering Approach to Assessment of Fabric Hand," in the Division of Cellulose, Paper and Textiles. The paper will be published in the September 1980 issue of the I&EC Product Research and Development.

Christine W. Jarvis (Asst Prof) and P. A. Danforth (Grad Stu) presented a paper, "A Comparison of Tensile Properties of Nonwovens: Effect of Sample Width, Speed and Treatment," at the 8th Technical Symposium, INDA, in Orlando, FL, March 21.

Prof. Vaughn presented an updated overview lecture, "The Nonwoven Fabrics Industry, Its Current Technical, Marketing, and Test Standardization Status," before Committee D-13 of the ASTM in Charlotte, NC, March 17. The presentation was given on behalf of INDA, Association of the Nonwoven Fabrics Industry. During the 8th INDA Technical Symposium (March 19-21) in Orlando, FL, Prof. Vaughn moderated two sessions: Panel discussions on the "Effects of Federal Regulatory Trends on Present and Future Nonwovens Technology" and "Fabric Formation/Binders."

C. W. Roberts (Prof) attended the spring meeting, American Chemical Society, Houston, TX, March 22-27 where he was elected to the Executive Committee of the Division of Organic Coatings and Plastics Chemistry.

An invited plenary lecture, "Interrelationships of the Primary Photophysical Processes and Primary Photodegradative Steps in Some Fiber-Forming Polymers," by J. A. Dellinger (Grad Stu), P.S.R. Cheung (Grad Stu), W. C. Stuckey (Grad Stu) and Prof. Roberts was presented at part of the International Symposium and Photodegradation, Photoxidation and Photostabilization of Organic Coatings.

UNDERGRADUATE STUDIES

Frank A. Burtner (Coordinator, Preprofessional Health) was invited by the University of Alabama School of Medicine and the University of South Alabama School of Medicine to speak on the importance of the liberal arts in preprofessional health education at a seminar sponsored by the Josiah Macy Foundation held in Birmingham, AL, May 2-3.

UNIVERSITY UNION

Bill Mandicott (Program Director) recently attended a one day drive-in workshop on graphics and promoting student activities sponsored by the Association of College Unions - International.

He coordinated a workshop session on "Professional Graphics Design and the Basics" in cooperation with the National Entertainment and Campus Activities Association.

ZOOLOGY

Michael D. Stribling (Undergrad Stu), William Hamlett (Grad Stu) and John Wourms (Assoc Prof) presented a paper, "Development Efficiency of Oophagy, a Methods of Viviparous Embryonic Nutrition Displayed by the Sand Tiger Shark (Eugomphodus taurus)," at the annual meeting of the South Carolina Academy of Sciences in Charleston March 28-29.

Calendar of Campus Events

JUNE

- 2-6 -- Workshop: Industrial Pollution Control." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 3-6 -- FFA State Convention: "Fifty-Third Annual Convention of the S.C. Association of Future Farmers of America." Highlights include speaking and parliamentary procedure contest finals; presentation of scholarships, state farmer degrees, and various awards; and election of officers. Sponsored by Agricultural Education Department, Daniel Hall Auditorium, begins 8 a.m. June 3 and ends 1 p.m. June 6. Open to the public, no admission charge. Expected attendance 400 plus.
- 7-7/26-- Camp Logan for emotionally disturbed children. Co-sponsored by the S. C. Department of Mental Health and the Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 8-14-- Jaycee Camp Hope for mentally retarded South Carolinians over 18 years old. Co-sponsored by the S. C. Association for Retarded Citizens, the S. C. Jaycees, and the Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

9-20-- Eighth Annual Robert A. Taft Seminar in Government. Thirty teachers of government in South Carolina public schools will attend the all-expense-paid seminar to broaden their understanding and improve their teaching of the American system of government and two-party politics. Co-sponsored by the Robert A. Taft Institute and the Political Science Department. Call 656-3233 for more information.

13-16-- Workshop: "Interactive Computing." For high school students interested in learning about and working with computers. Sponsored by Continuing Engineering Education, call 656-3308 for more information.

WEPR Highlights

South Carolina Educational Radio Network programs produced by Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg; WSCI 89.3 FM, Charleston; and WMPR 88.1 FM, Sumter.

Weekdays	-- MORNING EDITION, 6 a.m., a news and feature magazine.
	-- DRIVETIME, 4:30 p.m., a magazine of locally produced features, news and weather hosted by Jim Barnhill. Beginning May 22, DRIVETIME will come to you live from Spoleto Festival USA in Charleston.
Sundays (1,8)	-- WOMEN-THEMSELVES, 6 p.m., a series on women in history produced by WEPR and the History Department.
Monday (2,9)	-- A LITTLE NIGHT MUSIC, 7 p.m., Bill French.
Tuesdays (3,10)	-- WOMEN-THEMSELVES repeat broadcast, 4 p.m.
Thursdays (5,12)	-- MAJORS AND MINORS, 7 p.m., Ray Barfield.
Fridays (6,13)	-- THE OLD AND NEW WORLDS OF WORDS, 4 p.m., John Idol and Jim Skinner.
	-- LATIN BEAT, 8:30 p.m., Joseph Arbena.
Saturdays (7,14)	-- I HEAR AMERICA, 2 p.m., Bill Pearson.

FACULTY AND STAFF RENTAL RATE SCHEDULE 1980-81

<u>Type</u>	<u>Current Rate</u>	<u>New Rate</u>	<u>Increase</u>
2 BDRM 2 Story	\$125/mo.	\$155/mo.	\$30/mo.
2 BDRM Duplex	\$140/mo.	\$175/mo.	\$35/mo.
3 BDRM Duplex	\$160/mo.	\$200/mo.	\$40/mo.
3 BDRM House	\$160/mo.	\$200/mo.	\$40/mo.

<u>Type</u>	<u>Current Rate</u>	<u>New Rate</u>	<u>Increase</u>
<u>Old College Homes</u>			
Unit No. 4015	\$215/mo.	\$270/mo.	\$55/mo.
Unit No. 0171	\$ 51/mo.	\$ 60/mo.	\$ 9/mo.
Unit No. 4008	\$125/mo.	\$200/mo.	\$75/mo.
Unit No. 0180	\$ 51/mo.	\$ 60/mo.	\$ 9/mo.
Unit No. 4014	\$ 85/mo.	\$100/mo.	\$15/mo.
Unit No. 4011	\$ 60/mo.	\$ 70/mo.	\$10/mo.

Experiment StationsEdisto

Unit No. 8501	\$ 70/mo.	\$ 90/mo.	\$20/mo.
Unit No. 8513	\$105/mo.	\$135/mo.	\$30/mo.
Unit No. 8525	\$ 70/mo.	\$ 90/mo.	\$20/mo.
Unit No. 8526	\$ 90/mo.	\$115/mo.	\$25/mo.
Unit No. 8514 (Vacant)	\$ 70/mo.	\$ 90/mo.	\$20/mo.
Unit No. 8539 (Vacant)	\$ 45/mo.	\$ 60/mo.	\$15/mo.

Sandhill

Unit No. 8004	\$ 60/mo.	\$100/mo.	\$40/mo.
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Pee Dee

Unit No. 8100	\$ 90/mo.	\$115/mo.	\$25/mo.
Unit No. 8116	\$ 51/mo.	\$ 65/mo.	\$14/mo.
Unit No. 8129	\$ 75/mo.	\$ 95/mo.	\$20/mo.

Coastal

Unit No. 8301	\$ 65/mo.	\$ 85/mo.	\$20/mo.
Unit No. 8311	\$ 75/mo.	\$ 95/mo.	\$20/mo.
Unit No. 8312	\$ 75/mo.	\$ 95/mo.	\$20/mo.

Clemson House Rates

<u>Type</u>	<u>Current Rate</u>	<u>New Rate</u>	<u>Increase</u>
<u>Permanent Apartments (Monthly Rate)</u>			
Efficiency	\$130.00	\$143.00	\$13.00
1 BDRM - 1 Bath	\$140.00	\$154.00	\$14.00
2 BDRM - 1 Bath	\$155.00	\$176.00	\$21.00
2 BDRM - 2 Baths	\$180.00	\$191.00	\$11.00
3 BDRM - 2 Baths	\$200.00	\$213.00	\$13.00

<u>Type</u>	<u>Current Rate</u>	<u>New Rate</u>	<u>Increase</u>
<u>Transient Rooms (Daily Rate)</u>			
Single Occupancy	\$10.50 - \$14.50	\$ 18.00	
Double Occupancy	\$16.00 - \$24.00	\$ 24.00	
Suite 707	\$ 35.00	\$ 55.00	\$20.00
Suite 727	\$ 35.00	\$ 55.00	\$20.00
<u>Commercial Establishments (Monthly Rate)</u>			
Barber Shop	\$100.00	\$120.00	\$20.00
Beauty Shop	\$100.00	\$120.00	\$20.00



GIFT FOR SCHOLARSHIPS -- Mr. and Mrs. Ed Green of North Myrtle Beach, left, present a \$4,000 gift to the Food Science Department's scholarship fund to Dean Luther Anderson of the College of Agricultural Sciences. Mr. Green has also been instrumental in a recent gift of equipment to be used by S.C. Experiment Station researchers in the study of retortable pouches, a new energy-efficient preservation technique which extends shelf life of meats and other foods and requires no refrigeration. The gift comes from So-Pak-Co, a company of which Marnet Company of Bennetsville is a division. Mr. Green formerly was owner of Marnet and now serves as a consultant to So-Pak-Co.

ATCHLEY CONFERS 1,305 DEGREES

President Bill Atchley conferred 1,305 degrees May 9 to the Clemson class of 1980, and told the graduates that their college experience has been a "piece of cake" compared to what they will face in the years ahead.

"You will discover that it may have been easy to cut a class -- but you can't cut getting up and going to your job, or taking care of a sick child, or having sooner or later to make some hard decisions that will affect other people's jobs, lives and happiness," said Atchley.

He said Clemson's goal must be "to help

shape the lives of men and women who will be creative, inventive and innovative, men and women who will be discoverers."

Atchley also awarded the University's two highest academic honors to graduating seniors. Recipient of the Norris Medal, presented to the best all-around student on the basis of scholastic and extracurricular achievement, was Bobby Conrad of Glen Ellyn, Ill.

Conrad averaged a 3.70 grade point average while majoring in history. A standout guard on the basketball team, Conrad was named the outstanding scholar-athlete in the Atlantic Coast Conference for 1980.

The Faculty Scholarship Award, presented to the student with the highest grade point average, was awarded to four members of the class of '80 who recorded perfect 4.0 averages. Recipients were: Mark Alan Buechler, an English major from Louisville, Ky.; Linda Merck Crenshaw, an elementary education major from Clemson; Melinda Ann Dukes, an elementary education major from Orangeburg; Charles Michael Yawn, a math major from Jacksonville, Fla.

Atchley also conferred the first honorary degrees the University has awarded since 1970. President Emeritus Robert C. Edwards, Clemson's eighth chief executive received the honorary Doctor of Humanities degree. State Senator Lawrence Marion Gressette of Calhoun County received the honorary Doctor of Laws degree. Charleston public relations executive Paul Quattlebaum Jr. was awarded the Trustee Emeritus Scroll for his 20 years of service on the University's Board of Trustees.

STUDENTS PICK 'MASTER TEACHER'

When Virginia Laycock was in the first grade, she spent half the year tutoring a classmate who had just arrived in America from Brazil.

Today, nearly 25 years later, she is still teaching, and her effectiveness has been acknowledged by the Clemson student body, which selected her as the University's 1980 Alumni Master Teacher.

An assistant professor of elementary and secondary education, Laycock teaches special education, a field which is dedicated to providing educational opportunities for students with learning or behavioral disabilities.

"The whole philosophy of special education is dealing with the handicapped as individuals," she explains. "Each child that my students work with is so unique with his or her own distinct array of problems. It's like trying to put a puzzle together to determine what each child can or cannot do.

"Because each of these children is 'special,' we have to be very systematic and precise with the way we approach teaching them. Our instruction methods have to be right on target."

Laycock says she is especially gratified by being named Master Teacher since she places so much emphasis on being a good model for her students. "I do teach methods of instruction, so I'm very conscious of being a good role model for my students. I have to ask my students to invest a lot of themselves, so I try to do this myself."

Investing time in her students is no small accomplishment. She oversees 100 students in five classes, all of which meet at night. Her days are usually spent meeting with students individually to help them implement a custom-made plan of instruction for the particular handicapped child each student is assigned for the semester.

This sort of intensity, says Laycock, is required by the nature of the problems one encounters in special education. "We take learning, growth and development so much for granted because it happens so easily for most of us. But when you try to analyze why a particular person has deficiencies in emotional and social skills, you realize the complexity of these problems."

Ironically, Laycock is leaving Clemson just as she receives one of the University's most meaningful honors. Her husband, Jimmie, until recently a member of the Clemson football coaching staff, has been named head football coach at the College of William and Mary, their alma mater.

She says the "reality of working with handicapped individuals" is a striking contrast to the competitive environment in which her husband works. But the combination of their work experiences, she adds, helps each of them keep their worlds in proper perspective.

COKER, LAFLEUR HONORED BY AGRONOMY STUDENTS

Clemson professor and a trustee were honored this spring by the school's agronomy Club for outstanding contributions to South Carolina agriculture and agriculture education.

Named 1980 honorary president of the club at its annual banquet was Robert R. Coker, honorary chairman of Coker's Pedigreed Seed Co. in Hartsville and a life trustee of the University.

Coker has served agriculture on the local, state and national level through such positions as president of the National Cotton Council, the group said. He was a founder and first president of the S.C. Farm Bureau and still serves on its board of directors.

Kermit S. LaFleur was named Agronomy Professor of the Year for 1979-80, by vote of the Agronomy Club members.

LaFleur has been at Clemson almost 20 years. After working for many years as a textile chemist, he returned to school to earn his M.S. degree in textile chemistry from Clemson in 1964 and his Ph.D. in agronomy in 1966.

He teaches undergraduate and graduate courses in soil physics and soil chemistry.

CHAIRMEN FOR SELF-STUDY COMMITTEES CORRECTED

In the last issue of the Newsletter, three chairmen of the college and departmental self-study committees were listed incorrectly or omitted.

Chairman of the Plant Pathology and Physiology Committee is G. C. Kingsland; Dairy Science, Elaine Richardson; and Livestock-Poultry Health, J. B. Thomas.

HAZING POLICY ADOPTED

In its April 3 meeting, the Cabinet adopted the following policy on hazing:

No organization shall allow any of its active members, alumni members, pledges or associate members, or any other persons, to participate in any hazing ceremony, activity, or practice, mental or physical in nature. This includes all types of corporal punishment, any action that would place a person in peril, any action which involves physical exhaustion or abuse, any activity of a dangerous, rude, or degrading nature, any activity which would interfere with a person's ability to perform college work, or any other activity which would reflect unfavorably upon the organization and the University.

EQUAL OPPORTUNITY POLICY

The University's Affirmative Action Program requires that the Equal Opportunity Policy be published. The policy, dated April 1, 1980, is as follows:

It is the policy of Clemson University that equal opportunity shall be afforded all persons. This mandate of equality extends to both the employment practices and administration of programs and activities within the University. It applies to (1) persons seeking employment and those employed and (2) persons who wish to participate in and benefit from programs and activities along with those who are now participants.

The Civil Rights Act of 1964, the Age Discrimination in Employment Act of 1967, the Educational Amendments of 1972, the Rehabilitation Act of 1973, the Vietnam Era Veterans Readjustment Assistance Act of 1974, Executive Order 11246, and implementing Federal Regulations provide for certain previously excluded or neglected classes of people to share more fully in the American way of life. Discrimination based on race, color, religion, sex, national origin, handicap, age, or status as a disabled veteran or veteran of the Vietnam era is prohibited. The South Carolina Human Affairs Law also prohibits discrimination in any State Agency or department or its local subdivisions.

It is the practice of this University to recruit, hire, train, and promote employees without discrimination. Furthermore,

it is our practice to take affirmative action to remove any disparate effects of past discrimination. This practice extends to all levels and phases of personnel administration such as recruitment or recruitment advertising, testing, hiring, training, promotion, transfer, leave, compensation, selection for supervisory positions, and administration of employee reduction-in-force and benefit programs.

Furthermore, in conformity with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1974, no person shall, solely by reason of race, color, national origin, sex, or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity conducted by this University. This practice covers admission, access, treatment, and all other aspects of programs and activities.

This policy shall be posted in places conspicuous to all members of the faculty, staff, and student body; it shall be communicated to all applicants for employment and admission; and it shall be given such external dissemination as is necessary to inform and secure the cooperation of individuals and organizations constituting sources of employment and student referrals to the University.

Any person having a question regarding applicable laws and regulations or who feels discriminated against is encouraged to contact this office.

AGRONOMY AND SOILS

The following papers were presented at the South Carolina Academy of Science meeting at the College of Charleston March 28:

--Phillip T. Evans (Grad Stu), "Hybridizing Trifolium repens, T. michelianum and T. isthmocarpum," co-authored by E. A. Rupert (Prof).

--Dennis P. Delaney (Grad Stu), "Chlorophyll and Chloroplast Stability in Trifolium repens as Related to Hardening to Heat-

Drought Stress," co-authored by M. W. Jutras (Prof).

--L. R. Mundell Jr. (Grad Stu), "Allelopathic Effects of Purple Nutsedge (Cyperus rotundus) and Yellow Nutsedge (Cyperus esculentus) on Soybeans (Glycine max)," co-authored by Prof. Jutras.

CHEMISTRY

James C. Fanning (Prof) presented a seminar on nitrosamine chemistry to the chemistry faculty and students of the Baptist College of Charleston April 18.

Prof. Fanning, George B. Park (former faculty member), Charles G. James (former grad stu) and William R. Heatley Jr. (grad stu) published a paper, "Iron(III), 4,4', 4'',4'''-sulfophthalocyanine," in the Journal of Inorganic and Nuclear Chemistry, Vol. 42, pp. 343-348, 1980.

CIVIL ENGINEERING

Russell H. Brown (Assoc Prof) has received a grant from the Specialized Engineering Research Equipment Program of the National Science Foundation. The grant, in the amount of \$11,250, will be used for research equipment at the structural research laboratory which is presently being installed at the United States Department of Agriculture's Rural Housing Research Unit adjacent to the campus.

Herbert W. Busching (Prof) has received a six-month grant of up to \$24,000 from Hercules Incorporated, Wilmington, DE, to characterize asphaltic concrete containing short polypropylene fibers.

James L. Burati (Asst Prof) has had a paper published (with H. R. Thomas and J. H. Willenbrock of Penn State University) in the May Journal of the Transportation Division of the American Society of Civil Engineers. The paper, Proceedings Paper 15418, is entitled "State DOT Personnel Administration."

Prof. Brown attended a National Science Foundation-sponsored workshop, "Seismic Performance of Low-Rise Buildings," May

3-15 at the Illinois Institute of Technology, Chicago, IL, where he served as recorder. The workshop drew 63 invited participants and will result in a prioritized set of research needs to ensure safety of low-rise buildings in all ranges of seismic activity.

Prof. Brown addressed the Upper South Carolina Masonry Contractors Association May 19 in Greenville. The presentation, "An Overview of the Masonry Related Activities at Clemson University," describes the teaching, research, consulting and continuing education activities in which Prof. Brown is involved. The Association recently contributed \$500 to be used to enhance masonry teaching and research activities.

DAIRY SCIENCE

Fred E. Pardue (Prof) presented a seminar, "Computerized Rations for Dairy Cattle," at Berea College, Berea, KY, April 28 and at Tennessee Tech University, Cookeville, TN, April 29.

DIVISION OF INFORMATION SYSTEMS DEVELOPMENT

On March 23-26, six employees of the Division of Information Systems Development presented papers at the Association for Computing Machinery Southeastern '80 conference held in Tallahassee, FL.

Those employees and their respective papers are John C. Peck (Director) and Christopher W. Foreman (Systems Analyst), "The Effective Employment of Students in the Development of Information Systems for State Government"; Elizabeth Davis (Systems Analyst) and N. Gail Brownlee (Systems Analyst), "An Online System for Medicaid File Maintenance"; June R. Ponder (Systems Analyst), "The Effective Utilization of a Data Dictionary for Large State Government Application"; and Wanda S. Talley (Computer Programmer), "A Database-Oriented Social Services System - Title XX."

John C. Peck and Arthur G. Patterson (Systems Analyst) attended a Cullinane Corporation IDMS User's Association meeting in Phoenix April 13-16. Dr. Peck was elected to the Executive Board of the IDMS User's Association. Mr. Patterson presented a paper, "A Restart Technique for Database Processing," and served as a member of a panel on "Testing, Debugging, and Restartability."

John C. Peck also attended the S.C. State Data Processing Conference in Myrtle Beach April 23-25 and presented a one-half day workshop on Database Systems.

FOOD SCIENCE

Woodie P. Williams Jr. (Dept Hd) presented a paper, "Parameters for Evaluating and Predicting Nutritional Quality of Fish Meals," at the Annual Fisheries Symposium held in Washington, DC, March 19-21.

Michael G. Johnson (Assoc Prof) will serve as a member of the Program Committee for the Gordon Research Conference on "The Microbiological Safety of Foods" to be held June 15-20 at Plymouth State College, NH.

Prof. Johnson served as chairman of the Institute of Food Technologists Freshmen-Sophomore Scholarship Jury Meeting held in Chicago April 9. Twenty-one awards totaling \$11,000 were made.

Prof. Johnson was co-author with E. L. Kline (Asst Prof, Micro), L. H. McCaskill (Res Spec) and K. R. Deily (Grad Stu) of a paper, "Effects of Imidazole and Imidazole-4-Acetic Acid-HCl on Sporulation of Clostridium perfringens," p. 192 of the American Society for Microbiology Meeting Abstracts, May 11-16, in Miami Beach, FL.

Prof. Johnson was co-author with J. D. Kohl (former Grad Stu) of a paper, "Quantitative, Radial Diffusion Slide Assay for Staphylocoagulase," Applied and Environmental Microbiology 39: 339-341, 1980.

FORESTRY

W. Witcher (Prof, Plant Path and Phys) and C. L. Lane (Prof) co-authored an article, "Annosus Root Rot in Slash Pine Plantations in the Sandhill Section of South Carolina," published in Plant Disease Vol. 64, No. 4.

Prof. Lane, J. T. Gillingham (former Chemist, Agric Chem Serv), A. T. Shearin (Instr) and J. G. Williams (former Instr) co-authored a paper, "A Study of Water Table and Vegetation on Soils in the Coastal Plain," published as Department of Forestry, Research Series No. 33.

M. A. Taras (Prof) presented a seminar, "Biomass of the Southern Yellow Pines in the Southeast," to the Weyerhaeuser Company forestry technical staff at Tacoma, WA, April 10-11.

Prof. Taras served as arrangement chairman and B. H. Box (Dean) served as program chairman at the Eighth Annual Meeting of the Hardwood Research Council at Cashiers, NC, April 24-26.

HISTORY

Laura Becker (Asst Prof) has been selected to participate in the Woodrow Wilson Summer Institute on "Women in American History" to be held at Princeton University July 7 - August 1. The program is sponsored by the Woodrow Wilson Foundation and the National Endowment for the Humanities.

Charles H. Lippy (Asst Prof) reviewed The Second Coming Popular Millenarianism, 1780-1850 by J.F.C. Harrison in Religious Studies Review, VI (April 1980): 163.

HOME ECONOMICS

Emily Wiggins (Asst Prof), Myrle Swicegood (Prof and State Leader) and Joyce Jenkins (Assoc Prof) led discussions and presented summary statements at the regional meeting on "New Initiatives for Home Economics Research, Extension, and Higher Education."

Judith S. Kline (Assoc Prof) attended the National Conference for Extension Clothing and Textiles Specialists held in Dallas, TX, April 28- May 2. Prof. Kline was selected as one of 10 specialists to present a program summary of accomplishment of the Cooperative Extension Service. The title of the program presented was "Clothing for the Physically Limited."

INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) has presented a paper, "EPR Studies of PMMA Bone Cement," co-authored with R. C. Turner (Assoc Prof, Physics and Astronomy) at the First World Biomaterials Congress, Baden, Austria, April 8-12. He also gave an invited lecture on "Bone Formation in the Pores of Implants by Electrical Stimulation" at the Institute of Mineralogy and Petrology, University of Bologna, Italy, April 14.

Prof. Park published a paper with A. F. von Recum (Prof), G. H. Kenner (Assoc Prof), B. J. Kelly (Former Grad Stu), W. W. Coffeen (Prof, Ceramic Engr) and M. F. Grether (Former Grad Stu), "Piezo-electric Ceramic Implants: A Feasibility Study," Journal of Biomedical Materials Research, 14, 269-277 (1980).

Prof. von Recum was invited by the National Institutes of Health to review contract proposals concerning blood contacting materials and transcutaneous power transmission research April 24-26 in Bethesda, MD.

LANGUAGES

Leonard T. Perry (Asst Prof, Spanish) was local event chairman for the Fourth Annual Meeting of the Philological Association of the Carolinas that was held here March 13-15. He also organized and chaired a section in 19th Century Peninsular Literature.

John B. Romeiser (Asst Prof, French) has been awarded a Fulbright-Hays grant for summer study in Rome, Italy.

Prof. Romeiser recently presided over sections in 17th and 20th French literature at the meeting of the Philological Association of the Carolinas held here and the French Literature Conference held March 28-29 at the University of South Carolina in Columbia.

MATHEMATICAL SCIENCES

Khursheed Alam (Prof) has had a paper published in the American Mathematical Monthly, Vol. 87, No. 4, April 1980, titled "Bounds on the Negative Exponential Function."

Joel V. Brawley (Prof) is currently doing consulting work for the Department of Defense in the Washington area.

P. M. Dearing (Assoc Prof) and F. C. Newruck (former grad stu) have had a paper published in Management Science, Vol. 25, No. 11, November 1979, titled "A Capacitated Bottleneck Facility Location Problem."

James L. Flatt (Assoc Prof), John D. Fulton (Prof and Hd) and Stanley M. Lukawcki (Prof) met with the South Carolina Mathematics Education Committee in Columbia to discuss the critical need for high school mathematics teachers.

John Kenelly (Prof) served on a 16-member College Board Task Force for the proposed Advanced Placement Programs in Statistics and Computer Science in New York May 4-5. On April 28 he gave an invited talk to the mathematics students at Woodberry Forrest School in Orange, VA, and on April 26-27 he met with the Mathematics Association of America's Committee on Placement Examinations in Washington, DC.

Prof. Lukawcki and T. G. Proctor (Prof) gave invited talks at the Careers Day Program on "Careers in Mathematical Sciences" at Catawba Academy in Rock Hill May 6. On May 7 Prof. Lukawcki and Prof. Fulton talked to the Math Club at Travelers Rest High School.

Prof. Proctor was named by the president of SIAM to the Education Committee of the

American Federation of Information Processing Societies, Inc. (AFIPS) for the year 1980.

Richard D. Ringeisen (Assoc Prof and Assoc Hd) attended the International Conference on Graph Theory and Applications May 6-9 at Western Michigan University, Kalamazoo, MI. He presented an invited paper on "Decision Points in Mission Networks."

William H. Ruckle (Prof) gave a talk to the General Session of the American Mathematical Society Meeting in Davis, CA, April 26. His talk was "Pursuit of a Cyclic Graph - the Symmetric Stochastic Case."

James P. Jarvis (Assoc Prof) and Herman Senter (Asst Prof) presented a paper, "A Model for Evaluating Outdoor Recreation Alternatives," at the TIMS/ORSA Joint National Meeting held in Washington, DC, in May. At the same meeting, D. R. Shier (Vstg Assoc Prof) and Prof. Dearing gave a paper entitled "Network Location Problems and Weighted p-Statistics."

K. T. Wallenius (Prof) was awarded a one year renewal for \$87,500 to the Office of Naval Research Contract, "Topics in Applied Statistical Analysis."

MICROBIOLOGY

The following papers have recently been published by Microbiology faculty:

--"An Approximation Method for Estimating Cell Loss from a Growing Tumor," by Burt V. Bronk (Prof of Micro and Physics), Biochem. Biophys. Acta, 588, 241-245.

--"Metabolite Gene Regulation: Imidazole and Imidazole Derivatives Which Circumvent Cyclic Adenosine 3',5'-monophosphate in the Induction of the Escherichia coli Arabinose Operon," by E. L. Kline (Assoc Prof), V. A. Bankaitis (Grad Stu), C. S. Brown (Asst Prof, Biochem) and D. C. Montefiori (Grad Stu), J. Bacteriol, 141, 770-778.

--"Technique for Determining Total Bacterial Virus Counts in Complex Aqueous Systems,"

by D. L. Ewert (former Grad Stu) and M. J. B. Paynter (Prof and Hd), Appl. Environ. Microbiol.; 39, 253-260.

--"Enumeration of Bacteriophages and Host Bacteria in Sewage and the Activated-Sludge Treatment Process," by D. L. Ewert (former Grad Stu) and M. J. B. Paynter, Appl. Environ. Microbiol., 39, 576-583.

On March 3, Prof. Kline presented a seminar, "Industrial Application and Recombinant DNA," to the staff of Dowell Corp. Research Station, Walnut Creek, CA. He also conducted research on recombinant DNA at the Department of Genetics, University of California at Davis.

Prof. Paynter made a presentation to the Health Education Authority of the S. C. Commission on Higher Education March 12. The talk described past and future interactions between the Department of Microbiology at Clemson and the Department of Microbiology and Immunology at U.S.C., Columbia.

PHYSICS AND ASTRONOMY

Phillip J. Flower (Asst Prof) has had a paper, "The Hyades Cluster -- Solar Metallicity," published in the Proceedings of the 85th Symposium of the International Astronomical Union; held in Victoria, B.C., Canada, Aug. 27-30, 1979.

Prof. Flower has published a paper, "NGC 1868: A Metal Poor Intermediate-Age Cluster in the Large Magellanic Cloud," in the Astrophysical Journal, 235, 769 (1980).

Donald P. Miller (Prof) and Robert C. Brannon (Former Grad Stu) have had a paper, "Structure of Potassium Bromide-Amylose Determined by Accurate X-Ray Diffraction Intensities," published in Polymer Communications, Vol. 21, May 1980.

PLANT PATHOLOGY AND PHYSIOLOGY

G. C. Kingsland (Assoc Prof) published a paper, "Effect of Maize Dwarf Mosaic Virus Infection on Yield and Stalk Strength

of Corn in the Field in South Carolina," in Plant Disease 64: 271-173 (March 1980).

POLITICAL SCIENCE

Martin Slann (Assoc Prof) has published Roots of Political Science: An Introduction to the Political Process (Brunswick, Ohio: King's Court, 1980).

PROFESSIONAL DEVELOPMENT

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is the chairperson for the following seminars: 1) "Names and Faces," to be held June 16 on campus; 2) "From Secretary to Administrative Assistant," June 16, Clemson Holiday Inn; 3) "Positive Discipline," June 17, on campus; 4) "The Secretary Beyond the Typewriter," June 18, on campus; 5) "Women Moving Into Management," on campus, June 18-19; and 6) "Project Management," on campus, June 19-20.

Edward Vaughn (Prof and Hd, Text) is chairperson for a conference, "Nonwoven Fabrics Forum," to be held on campus June 16-20.

Robert H. Barker (Prof, Text) is co-chairperson for a two and one-half day conference, "The Chemistry of Dyeing and Finishing," to be held on campus June 24-26.

Hassan Behery (Assoc Prof, Text) is chairperson for a conference, "Application of Fabrics and Geotextiles in Civil Engineering," to be held at the Radisson Plaza Hotel in Charlotte, NC, June 25-26.

E. Earl Burch (Prof, IM) is the lecturer for a two-day seminar, "The Design and Analysis of Experiments," to be held on campus June 30 - July 1.

Claire O. Caskey (Assoc Prof, Engl) is the lecturer for a one-day seminar, "Effective Writing Skills for Secretaries," to be held on campus June 30.

Calendar of Campus Events

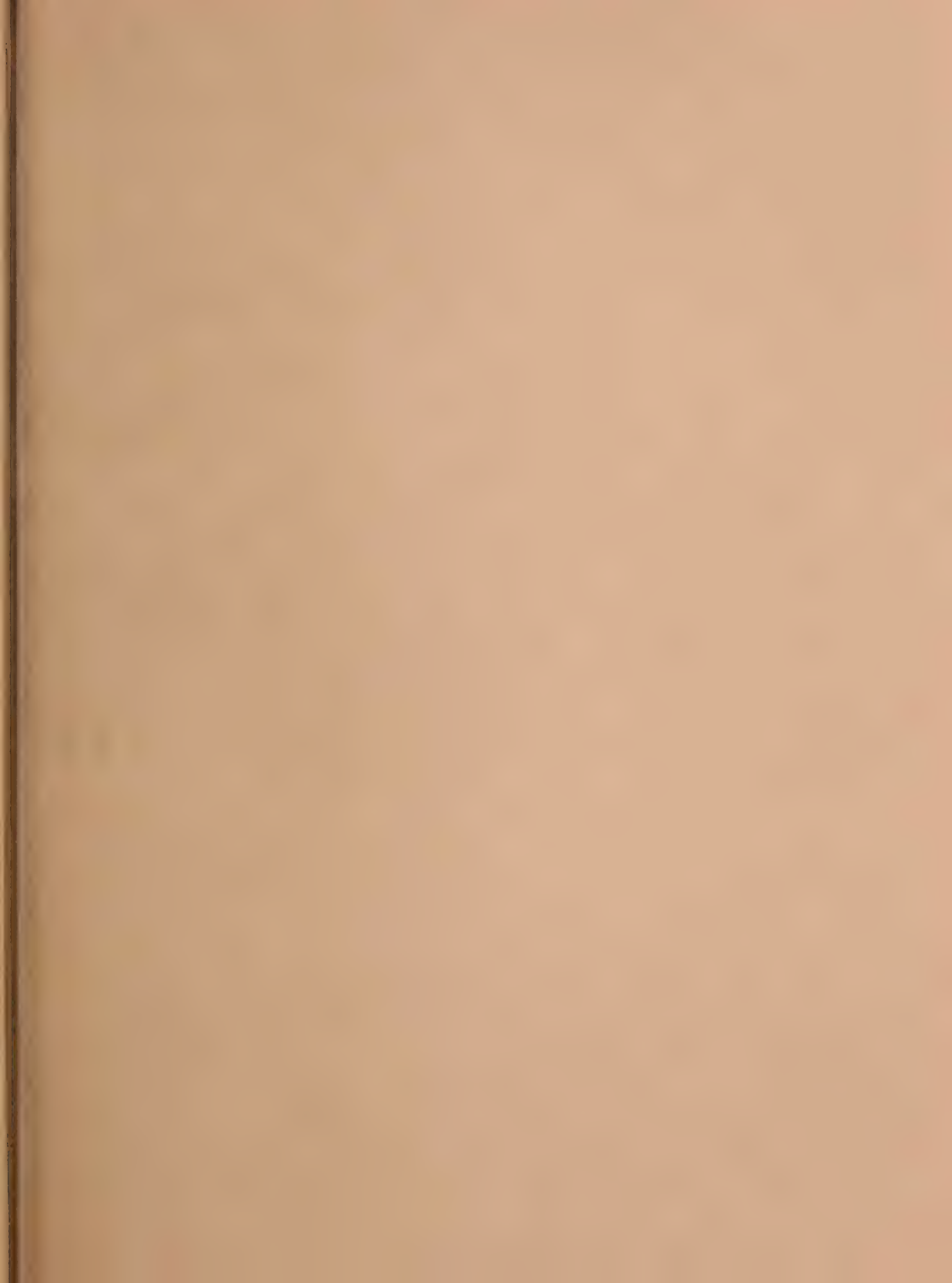
JUNE

- 15-21 -- Jaycee Camp Hope for mentally retarded South Carolinians over 18 years old. Co-sponsored by S. C. Association for Retarded Citizens, S. C. Jaycees, and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 16 -- Edgar's: "TV Baseball Night." Sponsored by University Union, Edgar's. University I.D. and proof of age required.
- 17 -- Edgar's: Comedy Night -- "His Girl Friday." Sponsored by University Union, Edgar's, 8 p.m. University I.D. and proof of age required.
- 18-20 -- Workshop: "Nursing Theory Development." Sponsored by College of Nursing Continuing Education Department. Open to post-doctoral registered nurses, pre-registration required. Call 656-3078 for more information.
- 18 -- Edgar's: "Happy Day," with Happy Hour prices all day. Sponsored by University Union, Edgar's. University I.D. and proof of age required.
- 19 -- Edgar's: Live entertainment. Sponsored by University Union, Edgar's, cover charge. University I.D. and proof of age required.
- 20 -- Edgar's: "Video T-Shirt Night." A videotape of Leon Russell will be shown, those wearing Edgar's t-shirts get Happy Hour prices. Sponsored by University Union, Edgar's. University I.D. and proof of age required.
- 22-28 -- Jaycee Camp Hope for mentally retarded South Carolinians 8 to 12 years old. Co-sponsored by S. C. Association for Retarded Citizens, S. C. Jaycees, and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 23 -- Edgar's: "TV Baseball Night." Sponsored by University Union, Edgar's. University I.D. and proof of age required.
- 24 -- Workshop: "Psychiatric Emergencies." Sponsored by College of Nursing Continuing Education Department. Open to registered nurses only, pre-registration required. Call 656-3078 for more information.
- 29-7/11- Jaycee Camp Hope for mentally retarded South Carolinians 13 years of age and older. Co-sponsored by S. C. Association for Retarded Citizens, S. C. Jaycees, and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.

WEPR Highlights

South Carolina Educational Radio Network programs produced by Clemson University are aired by WEPR 90.1 FM, Greenville/Spartanburg; WSCI 89.3 FM, Charleston; and WMPR 88.1 FM, Sumter.

- Weekdays -- MORNING EDITION, 6 a.m., a news and feature magazine.
- DRIVETIME, 4:30 p.m., a magazine of locally produced features, news and weather hosted by Jim Barnhill. Beginning May 22, DRIVETIME will come to you live from Spoleto Festival USA in Charleston.
- Sundays -- WOMEN-THEMSELVES, 6 p.m., a series on women in history
(15,22,29) produced by WEPR and the History Department.
- Mondays -- A LITTLE NIGHT MUSIC, 7 p.m., Bill French.
(16,23,30)
- Tuesdays -- WOMEN-THEMSELVES, repeat broadcast, 4 p.m.
(17,24)
- Thursdays -- MAJORS AND MINORS, 7 p.m., Ray Barfield.
(19,26)
- Fridays -- THE OLD AND NEW WORLDS OF WORDS, 4 p.m., John Idol
(20,27) and Jim Skinner.
- LATIN BEAT, 8:30 p.m., Joseph Arbena.
- Saturdays -- I HEAR AMERICA, 2 p.m., Bill Pearson.
(21,28)



PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

JUN 13 1980

CLEMSON UNIVERSITY ALABAMA
SOUTH CAROLINA JUNE 15

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



June 15, 1980

Vol. 19 No. 20



ENGINEERING TECHNOLOGY DEPARTMENT HEAD NAMED

Richard M. Roberds

A retired Air Force colonel who is also a pilot, a physicist and a nuclear engineer has been named to head the Engineering Technology Department.

Richard M. Roberds, 45, comes to Clemson from Wright-Patterson Air Force Base in Ohio, where he was chief of the reconnaissance and weapons delivery division of the Air Force Avionics Laboratory. (Avionics is that branch of electronics devoted to aviation.)

Before that Roberds was chief of the experimental and applied physics branch of the Air Force Weapons Laboratory in Kirtland, N.M. He was the first manager of Air Force programs in particle beam weapons research.

A 1956 physics graduate of the University of Kansas, Roberds received his master's degree in nuclear physics from the same institution in 1963. He earned a doctorate in nuclear engineering from the Air Force Institute of Technology in 1975.

In addition to his scientific work, Roberds has logged almost 4,000 hours in the air as a command pilot and served one year in Vietnam. He has been awarded the Legion

of Merit, Distinguished Flying Cross and the Air Force Meritorious Service Medal.

REEL TO SERVE AS ACTING PROVOST

Dean Jerry Reel will serve as acting provost for the interim between Dean Victor Hurst's retirement June 30 and Aug. 1, when David Maxwell takes office as provost and vice president for academic affairs.

Reel has served as acting dean of undergraduate studies since last August. The responsibilities of this office will be redefined as part of the university-wide reorganization process. Meantime, Reel will continue to coordinate these activities, as well as act as provost.

"It's very important that we have a smooth transition in academic affairs and with Dean Reel directing things, I'm confident we'll have no problems," President Bill Atchley said in announcing the appointment.

One major project for Reel's office during the summer is preparation for faculty/staff orientation. He will also be involved as necessary with new student orientation programs.

During July, Reel can be reached through either the provost's office at 209 Sikes Hall, ext. 2301, or the undergraduate studies office at E102 Martin Hall, ext. 3022.

WOMEN ADMINISTRATORS TO DEVELOP NETWORK ORGANIZATION

Steps toward developing a networking organization for women administrators at Clemson began at the first statewide conference of South Carolina Women Administrators in Higher Education Administration.

The conference, which was held March 11 in Columbia, was attended by Clemson staffers Corrine Sawyer, Melonie Willingham, Lucy Reddick, Judith Chodil, Peggy Cover, Sandra Clipp, Sandy Underwood, Joy Smith, Boo Cheney, Debbie Dunning, and Shirley Owens.

Conferees discussed where women administrators in higher education find themselves today as a group and what they can do as individuals to improve their chances for advancement in higher education.

Program participants included James B. Holderman, president of the University of South Carolina, as well as other top administrators from South Carolina colleges. Clemson was represented by Sam Willis, dean of university extension, due to a conflict in President Bill Atchley's schedule.

As a follow-up to the conference, Atchley initiated a meeting with the program attendees to express his personal endorsement of the conference and its goal to increase the number of women in college administration. Atchley further offered his support for any special programs which University women may wish to organize.

Work has begun to develop a Clemson networking organization. Contact any of the following for further information: Boo Cheney, 2467; Judy Chodil, 3078; Sandra Clipp, 2287; Corrine Sawyer, 3022; and Melonie Willingham, 3181.

CLEMSON TO PHASE OUT CETA POSITIONS

Following recent Cabinet action, the Public Service Employment program of the Comprehensive Employment Training Act (CETA) is being phased out on the Clemson campus.

According to Dicksie Cribb, Personnel Department specialist on the CETA program, when these CETA programs were begun in 1975, they were of mutual benefit to the employee and the University. The experience gained by participation in the CETA program improved the future employability of the person filling the contract. There

was, at that time, a \$10,000 salary limit which allowed departments to open a great variety of positions within a fairly broad classification range.

The CETA Reauthorization of 1978, however, restricted salaries to a lower grade, allowing only positions which were of less use to the departments and the employees. In addition, federal funding from the Department of Labor became increasingly un dependable, says Cribb, causing more and more problems in maintaining stability in the program.

"Because of confusing and uncertain priorities from the Department of Labor, administration of the program also became more complicated," says Cribb.

Since a time limit is set on CETA employees' length of employment, the six positions influenced by this change in policy will be allowed to run their full term of eligibility, depending on funding. The positions will be deleted as the persons now filling them leave the program.

Clemson will be out of Public Service Employment by September 30, 1981, according to Cribb. Other CETA programs under different titles will not be affected.

FACULTY-STAFF SCHOLARSHIP REQUIREMENTS CHANGED

Approving a recommendation of the Scholarships and Awards Committee, the President's Cabinet has eliminated participation in the National Merit Program as a requirement of eligibility for the Faculty-Staff Scholarship.

According to Corrine Sawyer, chairman of the Honors Program, "Many very fine incoming freshmen have not participated in the National Merit Program, so when we restricted the scholarship to National Merit Finalists and Semifinalists, we eliminated some excellent students from competition."

The Faculty-Staff Scholarship is awarded to one incoming freshman and is renewable upon maintaining high academic standards.

It has a stipend of \$1,500.

BICYCLE OPERATION REGULATIONS CHANGED

Following an incident this spring in which a student was hit by a bicyclist near Martin Hall, the University Traffic and Parking Committee initiated a study on pedestrian and bicycle safety.

Acknowledging the fact that bicycles can present a dangerous situation, chairman of the committee Bill Pace says the committee's first recommendation to the Cabinet was to permit their operation only on "roadways." This proposal was presented to the Student Senate and the Faculty Senate for approval. Although the student group endorsed it, says Pace, the faculty members did not, and it was returned to the Cabinet for further study.

After considering alternatives, the Cabinet decided that the Bicycle Code should be changed to allow bicycles only on clearly marked paths and roadways. Pace notes that violators of this code are subject to impoundment of their vehicles.

Pathways will be marked with the international sign for bicyclists, but in all areas, the pedestrian will have the right-of-way, says Pace.

ACCOUNTING AND FINANCE

Jimmy D. Sheriff (Assoc Prof) has been appointed to the 1980-81 Committee on Education for the National Association of Accountants to advise and make recommendations to the Executive Committee on the nation-wide educational activities and policies of the Association.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

B. L. Dillman (Prof) organized and attended a workshop of the Southern Natural Resource Economics Committee at Jekyll Island, GA, March 27-28.

The following faculty members and graduate

assistants participated in the annual meetings of the Southern Regional Science Association held in Savannah, GA, April 13-15:

Prof. Dillman and Caryl Ersenkal (Grad Asst) presented a paper, "A Use of the Gravity Model to Estimate the Residential Distribution of New Workers at a Large Nuclear Energy Center." Prof. Dillman chaired a session on Regional Interindustry Economics, and Mrs. Ersenkal discussed three papers in a session on Environmental Studies.

M. S. Henry (Assoc Prof) was elected secretary-treasurer of the Southern Regional Science Association, and J. C. Hite (Prof) was elected editor of The Review of Regional Studies by the Executive Council of the Southern Regional Science Association.

Prof. Hite presented a lecture, "Natural Resources in the Market System," in the Free Enterprise Lecture Series at Brenau College, Gainesville, GA, April 17.

BIOCHEMISTRY

Carolyn S. Brown (Asst Prof) and Cindy Putnam (Grad Stu) presented a paper at the American Society for Microbiology meetings, Miami, May 11-16, entitled "The Effect of Serotonin on Growth and Differentiation of Murine B₁₆C₃ Melanoma Cells."

Prof. Brown with Ellis L. Kline (Assoc Prof, Micro), Vytas Bankaitas (Grad Stu), Dave Montefiori (Grad Stu) and Ken Craig (Assoc Prof, Edinboro State College) published a paper, "Metabolite Gene Regulation of the L-arabinose Operon in Escherichia coli with Indoleacetic Acid and Other Indole Derivatives," PNAS 77: 1768-1772, 1980.

J. M. Shively (Prof and Hd) with Marian Toth (Grad Stu) and Gordon Cannon (Grad Stu) took part in a symposium on "Autotrophy" at the national meetings of the American Society for Microbiology in Miami, May 11-16. The presentation was entitled "Carboxysomes in CO₂-Assimilating

Microbes."

David C. Speckhard (Asst Prof), John Bruens (Undergrad Stu) and Barbara Onufer (Grad Stu) published an abstract, "Apparent Template Binding Constants for T₇ Induced RNA Polymerase," in Bulletin of S.C. Acad. of Science, Vol. XLII, 1980.

Prof. Speckhard, Ron Locke (Undergrad Stu) and Barbara Onufer published an abstract, "Apparent Nucleotide Binding Constants for T₇ Induced RNA Polymerase," in Bulletin of S.C. Acad. Science, Vol. XLII, 1980.

BUILDING SCIENCE

M. David Egan (Assoc Prof) attended the 99th Meeting of the Acoustical Society of America April 25 in Atlanta, GA. Prof. Egan acted as chairman of the technical session on architectural acoustics.

CHEMISTRY

Keith McDowell (Assoc Prof) and Lynn Lewis (Grad Stu) attended the 1980 Southeastern Theoretical Chemistry Conference held in Knoxville, TN, May 23-24, and presented the following papers: "Quantum Monte Carlo," "A New Approach to Quantum Chemistry," and "Applications of CIBS Theory."

Prof. McDowell has published a paper, "Incomplete Basis Set Problem. IV. Perturbative Corrections to Pair Energies," in International Journal of Quantum Chemistry, 17, 895 (1980).

J. W. Huffman (Prof) and P. G. Harris (former Grad Stu) have had a paper, "Studies of Resin Acids 10. Approaches to the Synthesis of Podocarpic and Dehydroabietic Acids," originally published in the Journal of Organic Chemistry, Vol. 42, pp. 2357-2362 (1977), included in a volume, "Dedicated Papers, Robert Burns Woodward 60th Birthday," pages 239-244, published by Ciba-Geigy, Basel, Switzerland. This volume is a collection of papers published by former students and friends of R. B. Woodward, the 1965 Nobel Laureate in Chemistry, in commemoration of his 60th birthday.

CIVIL ENGINEERING

Subhash C. Anand (Prof) and Ashok Pandit (Grad Stu) attended the 3rd International Conference on Finite Elements in Water Resources held at the University of Mississippi, Oxford, MS, May 19-22. Pandit presented a paper, "Some Considerations in Finite Element Solution to Coupled Groundwater Flow and Connective-Dispersion Equations," co-authored by Prof. Anand, Mr. Pandit and Ben L. Sill (Assoc Prof) which has been published in the Conference proceedings, pp. 3.97-3.107.

DAIRY SCIENCE

Michael A. Barnes (Asst Prof) gave an invited seminar, "Recent Research Findings Utilizing Specific Bovine FSH Radioimmunoassay Technique," to the faculty of the Department of Dairy Science at Virginia Tech in Blacksburg, VA, May 12.

ENTOMOLOGY AND ECONOMIC ZOOLOGY

T. E. Skelton (Prof) attended a symposium at the University of Georgia April 30-May 2 commemorating the silver anniversary of the establishment of the Department of Entomology. He was one of six invited speakers and presented a paper on teaching entomology to current students (undergraduate and graduate), former students, and faculty and administrative personnel of the University of Georgia.

A recently published book, Sampling Methods in Soybean Entomology, contains four chapters which are authored or co-authored by Merle Shepard (Assoc Prof). These chapters are entitled: (1) "Sequential Sampling Plans for Soybean Arthropods," (2) "Sampling Mexican Bean Beetles," co-authored with Prof. S. G. Turnipseed, (3) "Sampling Predaceous Hemiptera," co-authored with Prof. M. Irwin, University of Illinois and (4) "Sampling Ground Predators in Soybean Fields," co-authored with Prof. J. F. Price, University of Florida. The book is published by Springer-Verlag, NY.

Arnold G. Eversole (Assoc Prof) attended and presented a paper, "Reproductive Response to Increased Density: Some Observations from Molluscs," at the 72nd Annual Joint SINA-NSA convention in Hyannis, MA, June 8-12.

EXTENSION AGRICULTURAL ENGINEERING

John A. Collier (Asst Prof) has received a \$7,000 grant from the South Carolina Wildlife and Marine Resources Division to mechanically transplant 5,000 bushels of oysters from polluted waters to non-polluted waters.

A \$16,000 grant was received from Control Data Corporation to locate and assess personal experiences with earth-sheltered dwellings in South Carolina. Larry G. Peppers (Assoc Prof, Soc) will conduct the investigation.

Jerry R. Lambert (Prof) and Gerald D. Christenbury (Assoc Prof) have received \$21,500 for extension of their project, "Irrigation Scheduling Models for Effective Use of Water and Energy," from USDA through the Cooperative Agreement.

EXTENSION HOME ECONOMICS

Veronica Carmack (Assoc Prof) and Joyce Jenkins (Assoc Prof) attended the National Workshop for Extension Specialists in Resource Management and Consumer Education held in Nashville, TN, May 5-9. Prof. Jenkins participated in the workshop on 4-H youth programs.

Prof. Carmack participated in the sessions on newsletters and also appeared on a panel discussing computer and calculator programs.

Edith Burgess (Staff Asst I) gave the welcome during the first week of the tenth annual session of College Week for Senior Citizens held at Clemson University May 19-23, with 290 persons attending.

Myrle L. Swicegood (Prof) gave the welcome during the second week, May 23-27, with 200 people attending.

Ursula Holahan (Assoc Prof) and Jean Watson (Homemaker Volunteer) presented a session on "Clothing for Independent Living" during College Week for Senior Citizens.

GEOLOGY

Villard S. Griffin Jr. (Prof) visited the Department of Geology at the University of Georgia May 15 and presented a seminar before the faculty and graduate students. The seminar, "The Inner Piedmont Belt: A View from South Carolina," summarized an investigation supported by the National Science Foundation and the South Carolina Geological Survey.

HISTORY

Joseph L. Arbena (Assoc Prof) has published reviews of La opera en Columbia, by Jose Ignacio Perdomo Escobar, and Textos sobre musica y folklore, 2 vols., edited by David Feferbaum and Hjalmar de Greiff. Both reviews appeared in the Latin American Music Review, 1:1 (Spring 1980).

INDUSTRIAL MANAGEMENT

J. Michael McDonald (Asst Prof) was a workshop leader with the following groups: 1) Carolinas Hospital and Health Services, Inc., Management Engineers' and Consultants' Staff Development Conference in Columbia, SC, April 21 and in Raleigh, NC, May 16; 2) DuPont (Cooper River Plant) in Charleston for a two-day training seminar for office assistants April 30 and May 1, sponsored by Clemson's Office of Professional Development; 3) Corps of Engineers, Management Development Program May 5-6, sponsored by the Recreation and Park Administration Department at Clemson.

John K. Butler Jr. (Asst Prof) presented a paper, "Value Fulfillment and Satisfaction in an Intensive Training Program: A Causal Analysis," at the Eastern Academy of Management meeting. Prof. Butler was also a discussant for three papers in a session on "Conflict and Stress."

MATHEMATICAL SCIENCES

J. L. Flatt (Assoc Prof), John D. Fulton (Prof and Hd), and S. M. Lukawecki (Prof) participated in a meeting of the South Carolina Mathematics Education Planning Committee at the Irmo Middle School in Columbia May 16. The group of educators met to consider means to alleviate the drastic shortage in South Carolina of certified secondary school mathematics teachers. Prof. Lukawecki was named to a subcommittee of SCMEPC which will recommend action in this matter.

The Citadel recently held a week-long conference on "Mathematical Models for Energy and Public Policy" with Dr. Robert Thrall as the principal speaker. At the conference banquet May 22, John Kenelly (Prof) spoke on "Test Models for Teaching Policies." On May 19 in Greenville, Prof. Kenelly gave a special program on the 1980 Advanced Placement Mathematics Examinations for the AP students and teachers in Greenville County. On May 20, he installed the Mu Alpha Theta Chapter at Central High School in Pageland, SC. He participated in the induction of the club's 28 charter members and he gave an address, "The Importance of Encouraging the Mathematically Talented Students in Mathematics," to the students, teachers and parents.

Paul Ohme (Adj Assoc Prof) served on a panel to evaluate proposals submitted to the Division of Science Education Resources Improvement of the National Science Foundation, specifically submitted to the Foundation's Instructional Scientific Equipment Program. The panel met in Chicago April 16-19.

PLANT PATHOLOGY AND PHYSIOLOGY

Wesley Witcher (Prof), O. W. Barnett Jr. (Prof) and Wayne L. Ogle (Prof, Hort) have received a small-farm grant of

\$60,000 from the SEA-AR, effective over a three-year period to study the identification, cause and control of viruses affecting squash and southern peas. The funds will be used primarily for the support of graduate students working on these problems. Prof. Witcher will be project leader.

PROFESSIONAL DEVELOPMENT

Kathryn S. Collins (Admin Asst) presented a seminar on "Writing and Designing Effective Brochures" at Arizona State University May 20. She also lectured at the University of Oklahoma on "Increasing Enrollments Through Effective Brochures" on May 30..

Claude S. Simpson Jr. (Instr of IM and Asst Dir of PD) is chairperson for the following seminars: 1) "Supervisory and Foremanship Skills," to be held July 7-8 at the Ramada Inn in Greenville; 2) "Personal and Professional Effectiveness," to be held July 9-10 at Clemson; 3) "Women in Management," to be held July 14 at Clemson; 4) "Assertiveness Training," to be held July 15 at Clemson; 5) "Effective Expression," to be held July 16 at Clemson.

REDFERN HEALTH CENTER

While attending the Fifty-Eighth Annual Meeting of the American College Health Association in San Diego this April, Donald K. Freeman Jr., M.D. (Director, Student Mental Health Program) presented a paper to its Mental Health Section entitled "Confronting Problems of the Very Bright and Pseudo-Bright."

Calendar of Campus Events

JULY

- 1 -- Registration, second session summer school.
- 2 -- Classes begin, second session summer school.
- 2 -- Ice Cream Social: Ice cream sundaes for 50¢. Sponsored by University Union, loggia, noon-1 p.m.
- 2 -- Happy Day: Happy hour prices all day. Sponsored by University Union, Edgar's.
- 3 -- Edgar's: Live Entertainment. Sponsored by University Union, Edgar's, 9 p.m., cover charge.
- 4 -- Classes Suspended.
- 7-18 -- Workshop: "Careers for Women in Engineering and Science." High school sophomores from Oconee, Pickens, Spartanburg, Anderson, Greenville and Cherokee counties will explore the world of engineering and science. Co-sponsored by electrical and computer engineering department and Appalachian Council of Governments. Call Sylvia Cathey at 656-3371 for more information.
- 7 -- TV Baseball Night. Sponsored by University Union, Edgar's.
- 8 -- Movie Night: "The Graduate." Sponsored by University Union, Edgar's, 8 p.m.
- 9 -- Ice Cream Social: Ice cream sundaes for 50¢. Sponsored by University Union, loggia, noon-1 p.m.
- 9 -- Happy Day: Happy hour prices all day. Sponsored by University Union, Edgar's.
- 9-10 -- Workshop: "Developing Skills and Attitudes for Personal and Professional Effectiveness." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 10 -- Edgar's: Sue and Ginny. Sponsored by University Union, Edgar's, 9 p.m., 50¢ admission charge.
- 11 -- Video T-Shirt Night: Anyone wearing an Edgar's T-shirt will get happy hour prices. Sponsored by University Union, Edgar's.
- 12 -- Classes Meet.
- 13-19 -- Camp Running Brave for young male hemophiliacs from the Carolinas and Georgia. Co-sponsored by Recreation and Park Administration Department and South Carolina Chapter of the National Hemophilia Foundation. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 14 -- Short Course: Hammock Making. Sponsored by University Union, sign up at Union Information Desk.
- 14 -- TV Baseball Night. Sponsored by University Union, Edgar's.
- 14-16 -- Workshop: "Science of Manufacturing Ceramics." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 14 -- Workshop: "Women in Management." Sponsored by Office of Professional Development, call 656-2200 for more information.

July 1, 1980

Vol. 19 No. 21

NEWSLETTER

INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY



CLEMSON
UNIVERSITY

VICE PRESIDENT FOR ACADEMIC AFFAIRS
AND DEAN OF THE UNIVERSITY

A Note of Appreciation

To the some 300 people who contributed to or participated in our retirement celebration, Henrietta and I wish to convey our sincere appreciation for your kindness and good wishes. The night of Friday, May 16, will stand out as a landmark in our Clemson career which was begun 32 years ago. The unexpected generosity as reflected in the size of our gift has been almost overwhelming and we intend to make good use of the money.

Clemson University has been most kind to me during my 17 years as a faculty member and 15 years as an administrator. What success I have had has been due in great measure to the advice and assistance of many others too numerous to mention here. As those people read this, I trust that they will accept my statement made public by this note.

To our many friends, again, our thanks and best wishes.

Sincerely,

Victor Hurst, Vice President
for Academic Affairs and
Dean of the University

MARTIN NAMED NATION'S TOP DAIRY SCIENCE TEACHER

James H. Martin, professor and head of Clemson's Dairy Science Department, has been named one of the nation's top dairy science teachers.

Martin was presented the \$1,000 Kraft Inc. Teaching Award in Dairy Manufacturing June 17 at the 75th annual meeting of the American Dairy Science Association held in Blacksburg, Va. The award is given each year for "outstanding ability as an undergraduate teacher of dairy science."

A native of Collinwood, Tenn., Martin received his B.S. degree from the University of Tennessee and his M.S. and Ph.D. degrees from Ohio State University. He came to Clemson from South Dakota State University in 1978.

Martin's research has dealt with heat resistant bacterial spores in dairy food, efficient manufacture of cottage cheese and Cheddar cheese and the microbiology of soft serve frozen desserts.

He is editor of the Cultured Dairy Products Journal and is currently writing a paper on trends in dairy education for a special 75th anniversary edition of the Journal of Dairy Science.

In addition to winning the teaching award, Martin was chosen 1980 president-elect of ASDA, which held its annual meeting at the Virginia Polytechnic Institute and State University.

STROM LISTED IN WHO'S WHO

James L. Strom, director of planning and corporate relations, has been listed in the 1980 edition of Who's Who in the South and Southwest.

Strom, who has worked with Clemson's Development Office since 1971, coordinates capital improvements to the University campus and is in charge of all Clemson's non-alumni fund-raising.

A 1956 graduate of Clemson with a B.S.

degree in electrical engineering, Strom received a bachelor of business administration degree from Augusta College in 1970. He earned the Ph.D. degree in engineering from Clemson in 1975.

During his diverse professional career, Strom served as a junior engineer with the Lockheed Aircraft Company for three years and as an electrical engineer at the Charleston Navy Yards from 1961 to 1965, where he was senior electronic engineer and supervisor for the Polaris submarine missile system.

Strom spent six years with the Continental Can Company as senior research engineer before joining Clemson's Development Office.

He serves actively with committees of the South Carolina Commission on Higher Education and holds positions with the Clemson area Boy Scout Troop 235, the Clemson YMCA, and the Pickens County United Way fund.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

J. C. Hite (Prof) has been appointed by Governor Riley to the Task Force on the S.C. Economy.

B. H. Robinson (Prof) presented a paper, "Why Trade: Perspective, Barriers, Current Situation," at a Conference on International Trade and Southern Agriculture, Nashville, Tenn., May 22-23.

W. A. Tinsley (Prof) presented a paper, "Microcomputers in South Carolina, An Extension Worker's Views and Experiences," to the Cooperative Extension Service Specialist Staff at North Carolina State University May 19.

E. D. Wynn (Assoc Prof) participated in the National Extension Manpower Workshop in Washington, D.C., May 18-23.

AGRONOMY AND SOILS

U. S. Jones (Prof) presented an invited paper, "Research Strategies for the Future," at the Special International Symposium April 21-25 celebrating the 20th anniversary of the International Rice

Research Institute. Profs. J. C. Katyal, India; C. P. Mamaril, Indonesia; and C. S. Park, Korea, were co-authors. Prof. Jones is presently on sabbatical leave serving as visiting professor at the University of Philippines and as a visiting scientist with the International Rice Research Institute and the Southeast Asian Regional Center for Graduate Study and Research in Agriculture.

G. W. Smith (former Grad Stu) and H. D. Skipper (Prof) published a paper, "Comparison of Methods to Extract Spores of Vesicular-Arbuscular Mycorrhizal Fungi," in the Soil Science Society of America Journal, Vol. 43, No. 5, 1979.

Prof. Skipper and Mr. Smith published a paper, "Influence of Soil pH on the Soybean-Endomycorrhiza Symbiosis," in Plant and Soil, Vol. 53, pp. 559-563, 1979.

J. R. Woodruff (Prof) and C. L. Parks (Prof) published a paper, "Topsoil and Subsoil Potassium Calibration with Leaf Potassium for Fertility Rating," in the Agronomy Journal, Vol. 72, pp. 392-396, 1980.

CHEMISTRY

R. A. Abramovitch (Prof and Hd) was in Israel May 16-30 giving invited lectures and discussing the starting date of his cooperative research grant sponsored by the U.S.-Israel Binational Foundation with Prof. Dov Ben-Ishai of the Technion. He presented lectures on "New Nitrene Chemistry" at the University of Jerusalem, at the Weizmann Institute, and at the Technion. On a second visit to Jerusalem he presented a lecture, "Rearrangements of Heteroaromatic Nitrones," at the School of Pharmacy, Hadassa Medical School, Jerusalem. The cooperative research grant with the Technion will be initiated as of July 1.

CIVIL ENGINEERING

Soronadi Nnaji (Asst Prof) presented a paper, "A Generalized Markov Mixture Model for Drought Simulation," at the

1980 spring meeting of the American Geophysical Union held in Toronto, Canada, May 22.

Ben L. Sill (Assoc Prof) presented a paper, "Far Field Physical Models of Thermal Discharges," at the Symposium on Surface-Water Impoundments. This ASCE-sponsored symposium was held in Minneapolis, Minn., June 2-5.

Subhash C. Anand (Prof) and Roger H. Shaw (Senior Analyst, Bechtel Corp., Los Angeles, formerly Grad Stu) have published a paper, "Mesh-Refinement and Substructuring Technique in Elastic-Plastic Finite Element Analysis," in Computers and Structures, an international journal, Vol. II, No. 1-2, 1980, pp. 13-21.

COMPUTER SCIENCE

Harold C. Sellers (Lect) has accepted a summer appointment to the Texas State Government Effectiveness Program, organized by Governor Clements in 1979 to improve the efficiency and effectiveness of government operations. Sellers will be working with the Texas Research League on auditing and specification procedures for computer acquisition.

ENGINEERING TECHNOLOGY

Thomas H. Oswald (Assoc Prof) and Charles K. Roby (Assoc Prof) organized and conducted an energy conference, "Energy, A South Carolina Perspective," for the governor's Leadership South Carolina program. The conference was held at Clemson May 29-30 for a selected group of outstanding young leaders from state government and industry to investigate and discuss issues facing South Carolina.

Speaking at the conference, in addition to Governor Dick Riley and leaders from industry and government, were Pres. Bill Atchley, Victor Hurst (VP of Acad Affairs), Lyle C. Wilcox (Dean, Engr), Richard M. Roberds (Head, Engr Techn), Frederick J. Keller (Prof, Physics) and Donald R. Pitts (Prof, Mech Engr).

In addition to Prof. Oswald and Prof. Roby, the organizing committee included Prof. Pitts, J. Karl Johnson (Dir, CEE), Ralph W. Gilchrist (Prof, ECE), Jay W. Lathrop (Prof, ECE) and James A. Liburdy (Assoc Prof, Mech Engr).

ENGLISH

Richard J. Calhoun (Alumni Prof) read a commentary, "Robert Frost: The Newer Criticism," at the Robert Frost Symposium held at Winthrop College May 8-9.

Sterling Eisiminger (Asst Prof) read a paper, "Ethnic and National Stereotypes and Slurs," at the American Culture Association's annual meeting, Detroit, April 17. Prof. Eisiminger also served as a regional judge for the Achievement Awards in Writing Program conducted by the National Council of Teachers of English during May. He won first place in the adult division essay contest sponsored by the Greenville Metropolitan Arts Council for his essay, "On Purbblind Scholars," which was printed in a supplement to the Greenville Piedmont May 9.

John Idol (Assoc Prof) published a note, "Nathaniel Hawthorne and Thomas Wolfe," in The Nathaniel Hawthorne Society Newsletter, 6 (April 1980), 6-7.

Roger Rollin (Lemon Prof) read "The Freud Connection: Psychoanalytic Approaches to Audience-Response to Popular Culture" at the annual meeting of the Popular Culture Association held in Detroit April 18.

FOOD SCIENCE

Charles V. Morr (Stender Prof) attended American Dairy Science Association Meetings at Virginia Polytechnic Institute and State University, Blacksburg, Va., June 15-18, where he chaired the Dairy Foods Council Meeting, Dairy Foods Division Business Meetings and a symposium, "Proteolysis in Milk and Milk Products."

Woodie P. Williams Jr. (Hd) presented a talk, "The Consumer and Food Purchasing," to store managers and executive officers

of Bi-Lo Stores, Inc., at Myrtle Beach June 2.

The following papers were presented at the Institute of Food Technologists Meetings in New Orleans, La., June 8-11. R. L. Thomas (Grad Res Asst), Prof. Morr, J. J. Jen (Assoc Prof), "Characterization and Catalytic Properties of Tomato Peroxidase"; Prof. Morr, Si-Yen Chung (Grad Res Asst) and Prof. Jen, "Effect of Microwave and Conventional Cooking on Nutrient Retention of Colossus Peas"; S. S. H. Rizvi (Asst Prof), "Rheological Properties of Commi-nuted Meat Systems"; J. C. Acton (Prof), "Meat Protein Functional Properties in Water-Fat Relationships."

Donald M. Henricks (Prof) gave an invited paper at an international symposium, "Steroids in Animal Production," in Warsaw, Poland, April 29. The title of the paper was "Assay of Naturally Occurring Estrogens in Bovine Tissues." Subsequently, he visited research institutes in Munich, Germany, and Dublin, Ireland, at which he delivered seminars on his research which deals with the role of steroid hormones in bovine reproduction.

HOME ECONOMICS

Joyce H. Jenkins (Assoc Prof) participated in the Tenth Annual J. C. Penney Consumer Affairs Forum at the J. C. Penney Headquarters in New York City June 1-6. The week-long forum was designed to explore current issues from business, consumer and government perspectives and provide participants a better insight into the world of consumerism. In addition to exploring consumerism in America, foreign participants shared the European situation as viewed by the Common Market countries.

INDUSTRIAL MANAGEMENT

N. Keith Womer (Assoc Prof) chaired the session on "Statistical Cost Analysis" at the Joint National ORSA/TIMS Meeting May 6 in Washington, D.C. He also presented his paper, "A Statistical Cost Function for Military Airframes," at the meeting.

MECHANICAL ENGINEERING

James G. Goree (Prof) and Robert S. Gross (former grad asst) have had a paper, "Stresses in a Three-Dimensional Unidirectional Composite Containing Broken Fibers," published in the International Journal of Engineering Fracture Mechanics, Vol. 13, pp. 395-405, 1980.

NURSING

Sharon W. Thompson (Asst Prof) conducted a workshop on "Pediatric Emergencies" for registered nurses May 17. The workshop was sponsored by the Continuing Education Department and supported in part by funds from the Appalachia Regional Emergency Medical Services Council.

PHYSICS AND ASTRONOMY

H. W. Graben (Prof) and Kai-Ning Chang (Grad Stu) published a paper, "Threshold Condition for Forming an Atomic ^4He Trimer," in the J. Phys. Soc. Jpn. 48, 1043 (1980).

John R. Ray (Prof) recently published a paper, "Time-Dependent Invariants with Applications in Physics," in Lett. Nuovo Cimento 27, 425 (1980).

POULTRY SCIENCE

Jack E. Jones (Prof) has been appointed Clemson University's representative to the S.C. Nutrition Council for the next year.

PROFESSIONAL DEVELOPMENT

J. Michael McDonald (Asst Prof, IM) is the lecturer for a one-day seminar, "Professional Development for Secretaries," to be held at the Clemson Holiday Inn July 23.

Raymond Sawyer (Asst Prof, Engl) is the lecturer for a two-day workshop, "Effective Public Speaking," to be held July 29-30 on campus.

TEXTILES

E. A. Vaughn (Prof and Hd) presented a paper, "Fiber-Fabric Relationships in Today's Nonwovens," at the Eighteenth Annual Spring Seminar of the Appalachian and Piedmont Chapters of the American Association for Textile Technology in Gatlinburg, Tenn., May 16.

John J. Porter (Prof) was a discussion leader at the 1980 Southern Textile Research Conference held May 19-20 at Pawleys Island.

Calendar of Campus Events

JULY

- 15-31 -- Art Exhibition: "Summer Show 1980." Features architecture students' projects at all levels and phases of study including architectural projects, solar energy projects, printmaking, ceramics, painting, drawing, graphic design and photography. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 15 -- Movie Night: "Yellow Submarine." Sponsored by University Union, Edgar's, 8 p.m.
- 15 -- Workshop: "Assertiveness Training for Women." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 16 -- Ice Cream Social: Ice cream sundaes for 50¢. Sponsored by University Union, loggia, noon-1 p.m.
- 16 -- Happy Day: Happy hour prices all day. Sponsored by University Union, Edgar's.
- 16 -- Workshop: "Effective Expression for Women." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 18 -- Video T-Shirt Night: Anyone wearing an Edgar's T-shirt will get happy hour prices. Sponsored by University Union, Edgar's.
- 19 -- Trip to Six Flags. Details and sign-up at Union Information Desk.
- 20-26 -- Jaycee Camp Hope for mentally retarded South Carolinians over 18 years of age. Co-sponsored by S.C. Association for Retarded Citizens, S.C. Jaycees, and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 21-8/1-- Short Course: "Putting 'Energy' in the Secondary School Curriculum." Course topics include energy definitions and terms, magnitude and deployment of energy resources, fossil fuels, nuclear energy, non-fossil and non-nuclear energy sources, and toward a national energy policy. Sponsored by Education Programs Division of U.S. Department of Energy and Political Science Department. Held on campus, open to secondary school science and social science teachers from South Carolina, western North Carolina and north Georgia. Call 656-3122 for more information.
- 21 -- T.V. Baseball Night. Sponsored by University Union, Edgar's.
- 22 -- Movie Night: "She Wore a Yellow Ribbon." Sponsored by University Union, Edgar's, 8 p.m.
- 22-23 -- Workshop: "Computer Programming for Graphical Displays." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 23 -- Ice Cream Social: Ice cream sundaes for 50¢. Sponsored by University Union, loggia, noon-1 p.m.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 23 -- Happy Day: Happy hour prices all day. Sponsored by University Union, Edgar's.
- 25 -- Video T-Shirt Night: Anyone wearing an Edgar's T-shirt will get happy hour prices. Sponsored by University Union, Edgar's.
- 25 -- Second Annual Flower Day. The 2.5-acre All American Selection Variety Trial section of the Horticultural Gardens will be on display, featuring more than 50 species of annuals and perennials and 15 different lawn grasses under test. Sponsored by Horticulture Department, Horticultural Gardens, 9 a.m. - 4 p.m. Open to the public, no admission charge.
- 26 -- Classes meet.
- 26 -- Beer garden and outdoor concert featuring Dick Childs' Guitar Army. Sponsored by University Union, East Bank Recreation Area, 3-7 p.m. Rain date is Aug. 2.
- 27-8/2-- Camp Sertoma for disadvantaged youth and youth with speech and hearing handicaps. Co-sponsored by Sertoma Clubs of South Carolina and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 28 -- T.V. Baseball Night. Sponsored by University Union, Edgar's.
- 29 -- Movie Night: "Rolling Stones at Hyde Park." Sponsored by University Union, Edgar's, 8 p.m.
- 30 -- Ice Cream Social: Ice cream sundaes for 50¢. Sponsored by University Union, loggia, noon-1 p.m.
- 30 -- Happy Day: Happy hour prices all day. Sponsored by University Union, Edgar's.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.

JUL 17 1980

CLEMSON UNIVERSITY
SOUTH CAROLINA**NEWSLETTER**INFORMATION FOR THE
FACULTY AND STAFF
OF CLEMSON UNIVERSITY

July 15, 1980

Vol. 19 No. 22

NCEE MOVES HEADQUARTERS TO CLEMSON

The National Council of Engineering Examiners (NCEE) is establishing new headquarters near the Ravenel Research Center on a site provided by Clemson University. Groundbreaking ceremonies were held June 14 for the national headquarters.

The NCEE is a confederation of state and territorial boards of registration for professional engineers and land surveyors. Each board works under its state statutes in engineering registration and licensing to protect public health, safety and property. The state boards work through NCEE in promoting uniform standards for licensing engineers and land surveyors.

NCEE President Alfred H. Samborn said he hoped a closer bond with Clemson University would be established with the move of the headquarters from Seneca to Clemson.

President Bill L. Atchley participated in the groundbreaking ceremonies and called the move a milestone for NCEE. He said it was fitting that the national headquarters should be in South Carolina, since the organization had its origins and first headquarters in this state. Atchley is a former member of the West Virginia State Board of Registration for Professional Engineers.

The NCEE headquarters had been located in Clemson until 1973, when the move was made to Seneca to provide larger quarters for the expanding engineering licensure examination program. The new headquarters in Clemson will house between 8,000 and 9,000 square feet of floor space.

Executive director of NCEE is Morton S. Fine. Albert T. Kersich is chairman of the building committee.

ALLIED CHEMICAL SUPPORTS CLEMSON ACADEMICS

Allied Chemical Co. has given the University \$6,500 to support several academic programs, including the College of Engineering's highly successful summer engineering program for minority students.

Emily R. Angley, supervisor of personnel and community relations with Allied Chemical in Columbia, presented a check to President Bill Atchley for two \$1,500 scholarships in textiles, \$1,500 in unrestricted gifts to the Chemical Engineering Department and \$2,000 to the minority student program.

The two-week summer sessions for minority youths are supported almost entirely by contributions from business and industry. More than 160 high school students have been introduced to careers in engineering through the program.

Of the 60 youngsters who inaugurated the program in 1978, at least 52 are going on to college this fall, 39 of them in engineering.

ACCOUNTING AND FINANCE

Robert W. Rouse (Assoc Prof) has been awarded the Certificate in Management Accounting. He passed all five parts of the certificate examination which is sponsored by the National Association of Accountants. In addition to passing the examination, Prof. Rouse met specific educational and related professional experience requirements. The certificate program was established in 1972 to recognize professional competence in the field of management accounting.

Alison C. Drews (Assoc Prof) assumed the presidency of the Anderson Area Chapter

of the National Association of Accountants June 1 for the 1980-81 chapter year.

AGRICULTURAL ENGINEERING

US Patent No. 4,199,913 has been issued to Clarence E. Hood (Prof), Carl McHugh (Vstg Instr) and Fletcher Hawkins (Agr Sci Assoc) for "Orchard Fruit Handling System."

Roy B. Dodd (Instr) and Melvin K. Richardson (Prof, Mech Engr) have received a \$3,922 grant from John Deere for a study, "Review of Literature and State-of-the-Art for Methods Applicable to the Detection of Foreign Objects in Forage Harvesters."

The following presented papers at the 1980 annual meeting of the American Society of Agricultural Engineers in San Antonio, Tex., June 15-18: Gaines E. Miles (Asst Prof), W. Harold Allen (Assoc Prof), Thomas H. Garner (Prof), Richard O. Hegg (Assoc Prof), Frank H. Hedden (Assoc Prof):

--"Attic Air for Home Heating," J. O. Newman (Rural Housing Research Unit) and Prof. Hedden.

--"Tillage Mechanical Energy Input and Soil-Crop Response," D. Wolf (Vstg Prof), Prof. Garner and J. W. Davis (Vstg Instr).

--"Swine Nursery Micro-Environments and Energy Requirements," Prof. Allen and D. L. Handlin (Assoc Prof, An Sci).

--"Automated Solid Set Spray Cleaning of Milking Parlors," D. E. Robertson (Grad Stu), Prof. Hegg and C. L. Barth (Prof).

--"A Solar Supplemented Heat Pump Corn Dryer," R. E. Harrison (Grad Stu) and Prof. Allen.

--"Analysis of Deep-Bed Corn Drying Systems Using a Solar Supplemented Heat Pump in the Southeast," D. K. Gupta (Grad Stu) and Prof. Allen.

--"SIMTAB: An Interactive Computer Program for Teaching Simplex Tableau Procedures," Prof. Miles and R. G. Hammond

(Programmer).

Prof. Miles attended the board meeting of the American Soybean Association Research Foundation in St. Louis, Mo., June 17.

Prof. Hegg presided at a session of the Structures and Environment Division on "Animal Waste Management."

CHEMISTRY AND GEOLOGY

A. R. Pinder (Calhoun Prof) has published a review, "The Hydrogenolysis of Organic Halides," in Synthesis, 1980, 425.

J. W. Huffman (Prof) has been awarded a research grant by the National Institute on Drug Abuse to study the synthesis of the Celastraceae Alkaloids of Khat. The grant is for three years with a direct cost budget of \$118,730.

CIVIL ENGINEERING

Russell H. Brown (Assoc Prof) attended a meeting of the Western States Clay Products Association in Napa, Calif., where he made a presentation, "The Role of Research in Changing Code Requirements." The Association is supported by members located west of the Rocky Mountains and is concerned with solutions to problems facing the brick masonry industry.

Prof. Brown attended the Second Canadian Masonry Symposium in Ottawa, Canada, June 9-11 where he presented a paper, "An Evaluation of the Moment Magnifier Technique for Design of Unreinforced Masonry." The paper, co-authored by Fateh Watter (former Grad Stu), was also published in the symposium proceedings.

Subhash C. Anand (Prof) attended the 1980 American Society for Engineering Education Annual Conference held at the University of Massachusetts, Amherst, June 23-26, where he chaired a session which he organized on "Engineering Faculty - Obligation to Publish and/or Practice - Three Points of View." In addition, he participated in the Civil Engineering Division's Planning Session

for the next year's conference as a chairman of the Division's Committee #2.

James L. Burati (Asst Prof) has had two papers published (with H. R. Thomas and J. H. Willenbrock of Penn State University) in the June 1980 Journal of the Construction Division of the American Society of Civil Engineers (Vol. 106, No. C02). The papers are Proceedings Paper 15481, "Construction Contract Staffing Needs," and Proceedings Paper 15480, "Utilization of Contract Administration Resources."

COMPUTER SCIENCE

A. J. Turner (Assoc Prof and Hd) presented an invited tutorial, "Program Development Techniques," at the National Educational Computer Conference in Norfolk, Va., June 23.

DAIRY SCIENCE

The following papers were given by members of the Dairy Science Department at the 75th annual meeting of the American Dairy Science Association at Blacksburg, Va., June 16-18:

--"Contract Calf Rearing in South Carolina," G. E. Gramling (Prof) and B. F. Jenny (Assoc Prof).

--"Calf Mortality in South Carolina Dairy Herd Improvement Herds," Prof. Jenny, Prof. Gramling and T. M. Glaze (Grad Asst).

--"GnRH Mediated Gonadotropin Release in Lutalyse Treated Heifers," G. W. Kazmer (Grad Asst) and M. A. Barnes (Asst Prof).

Also at the ADSA meeting, J. H. Martin (Prof and Hd) received the Kraft Inc. Teaching Award of \$1,500 and a wall plaque. The award is presented for outstanding ability as an undergraduate teacher of dairy science in an accredited college or university and is based on 10 years of active university teaching.

In addition to winning the teaching award,

Prof. Martin was chosen 1980 president-elect of the American Dairy Science Association.

A. B. Bodine (Asst Prof) gave an invited paper, "Aflatoxin: Discovery to Destruction-An Overview," at the 38th annual meeting of the Association of Southern Feed, Fertilizer, and Pesticide Control Officials in Charleston June 16-19.

ECONOMICS

Russell Shannon (Prof) published a review of American Made: Men Who Shaped the American Economy by Harold C. Livesay in the June 1980 issue of The Freeman.

EXPERIMENTAL STATISTICS UNIT

Lawrence W. Grimes (Asst Prof) published a paper, "Estimation of Genetic Variances and Covariances Using Symmetric Differences Squared," in the Journal of Animal Science, Vol. 50, No. 4, 1980.

INDUSTRIAL MANAGEMENT

J. Michael McDonald (Asst Prof) was a guest speaker at the annual Boy Scout Field Executive's Development Workshop (Blue Ridge Council) May 28.

Prof. McDonald also conducted a one-day workshop on "Consulting Skills Development" for the Central Division of Carolina's Hospital and Health Services, Inc. in Charlotte, N.C., June 6.

Warren W. Menke (Prof) gave a speech, "Decision Making Under Uncertainty," to the Greenville Chapter of the American Society of Quality Control at their regular meeting June 10.

INTERDISCIPLINARY STUDIES

Joon B. Park (Assoc Prof) has given lectures in the Korean Institute of Science and Technology (June 7), Seoul, Korea, and Osaka Dental University, Osaka, Japan (June 12-13) on biomaterials.

He also chaired a session in the International Congress of Implantology and Biomaterials in Stomatology, Kyoto, Japan (June 8-11) and presented a paper, "Effects of Load on Electrically Stimulated Porous Dental Implants," co-authored with W. J. Whately (Grad Stu), G. H. Kenner (Assoc Prof) and A. F. von Recum (Prof) in the Congress.

NURSING

Barbara Barham (Instr) presented a paper, "The Birth of a Second Child: A Separate Developmental Crisis," at the American Nurses Association Convention in Houston, Tex., June 8-13. Judith J. Chodil (Assoc Prof and Dir, Continuing Education) attended the convention as a South Carolina delegate.

Prof. Chodil has been appointed to a three-year term on the National Accreditation Board for Continuing Education, Eastern Regional Accrediting Committee of the American Nurses Association.

PROFESSIONAL DEVELOPMENT

Kathryn S. Collins (Adm Asst) presented a seminar, "Writing and Designing Effective Brochures," June 26-27 at New Hampshire College in Manchester, N.H.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, Prof Dev) is chairperson for the following on-campus seminars: 1) "Effective Performance Appraisal and Review," Aug. 4-5; 2) "Practical Interviewing Techniques," Aug. 6-7; 3) "How to Delegate Effectively," Aug. 11-12; 4) "Managing the Unsatisfactory Performer," Aug. 13-14; 5) "Construction Contract Law," Aug. 13-15.

J. Michael McDonald (Asst Prof, IM) is lecturer for a one-day seminar, "Professional Development for Secretaries," to be held at the Mission Valley Inn in Raleigh, N.C., Aug. 5.

Hassan Behery (Assoc Prof, Tex) is chairperson for the following workshops: 1) "Technical Workshop on Open-End Spinning," Aug. 5-7, Greenville, Spartanburg, and Charlotte; 2) "Technical Workshop on Shuttleless Looms," Aug. 12-14, Greenville, Spartanburg, and Charlotte.

July 15, 1980

Calendar of Campus Events

AUGUST

- 1-14 -- Art Exhibition: "Summer Show 1980." Features architecture students' projects at all levels and phases of study including architectural projects, solar energy projects, printmaking, ceramics, painting, drawing, graphic design and photography. Sponsored by College of Architecture, Rudolph E. Lee Gallery, 9 a.m. - 4:30 p.m. weekdays, 2-5 p.m. Sundays. Open to the public, no admission charge.
- 3-14 -- South Carolina Diabetes Camp for 50 South Carolina diabetic children ages 8-14. Co-sponsored by S.C. Diabetes Association and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 3-9 -- Camp Sertoma for disadvantaged youth and youth with speech and hearing handicaps. Co-sponsored by Sertoma Clubs of South Carolina and Recreation and Park Administration Department. Held at Outdoor Laboratory on Lake Hartwell. Call 656-2477 for more information.
- 5 -- Workshop: "Understanding the South Carolina Arts Commission," designed to encourage arts councils and committees to take part in S.C. Arts Commission programs. Sponsored by University Union, Union Building, 11 a.m. Open to all local arts councils and college or university arts committees. Call Bill Mandicott at 656-2461 for more information.
- 6-8 -- Conference: "State Erosion and Sediment Control" will be held in conjunction with the Annual Meeting of District Commissioners and the State Land Resources Commission. The public is invited to attend all conference sessions, including a keynote address by Sen. T. Ed Garrison on "Proposed Legislative Programs for Erosion and Sediment Control." Call 656-3014 for more information, including dates and times for specific sessions.
- 6-7 -- Examinations.
- 9 -- Graduation, Littlejohn Coliseum, 11 a.m.
- 9 -- Army and Air Force Commissioning exercises, 201 Sikes Hall, 9 a.m.
- 10-16 -- Camp Lions Den for visually handicapped South Carolinians. Co-sponsored by Lions Clubs of South Carolina and Recreation and Park Administration Department. Held at Outdoor Laboratory. Call 656-2477 for more information.
- 11-12 -- Workshop: "How to Delegate Effectively." Sponsored by Office of Professional Development, call 656-2200 for more information.
- 12-15 -- Workshop: "Computer-Aided Graphics and Design." Sponsored by Continuing Engineering Education, call 656-3308 for more information.
- 13-14 -- Workshop: "Managing the Unsatisfactory Performer." Sponsored by Office of Professional Development, call 656-2200 for more information.

13-15 -- Workshop: "Construction Contract Law." Sponsored by Office of Professional Development, call 656-2200 for more information.

PROCEDURES FOR SUBMITTING NEWSLETTER MATERIAL

All Calendar items of campus events (speakers, films, meetings, seminars, sporting events, etc.) should be submitted by written memorandum directly to the Office of University Relations, 102 Fike Recreation Center. Information and news items from the Office of the President, Vice President for Business and Finance, Vice President for Executive Affairs, Vice President for Student Affairs and the Vice President for Development should be submitted by written memorandum to the Office of University Relations, 102 Fike Recreation Center. Information and news items from all areas under the Vice President for Academic Affairs should be submitted by written memorandum to the office of the Dean of Undergraduate Studies, Room E-102, Martin Hall.

The following deadlines prevail: Items to appear in the Newsletter published the 1st of each month must be submitted by the 20th of the previous month; items to appear in the Newsletter published the 15th of each month must be submitted by the 5th of each month.



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SCHOLARSHIP WINNER--B. L. Womack, manager of Southeast Timberlands for the Boise Cascade Co., presents a \$5,500 scholarship check to Joseph D. Anderson, a forestry graduate student from Florida. Dean of the College of Forest and Recreation Resources Benton H. Box (far right) and Anderson's graduate committee chairman W. H. Davis McGregor (far left) also participated in the presentation. The check represents the first installment of a two-year commitment by the timber company. Anderson's thesis research will attempt to determine the effect of loblolly pine plantations on productivity of severely eroded old-field sites in the South Carolina Piedmont.

ACTING DEAN AND SEARCH COMMITTEE NAMED FOR ENGINEERING

President Bill Atchley has announced that Everett L. Thomas Jr. has been appointed acting dean of the College of Engineering effective August 1, and a search committee for a new dean has been organized.

Thomas succeeds Dean Lyle C. Wilcox who has resigned to become president of the

University of Southern Colorado.

Thomas, a member of the Clemson faculty since 1974, was appointed assistant to the dean in January. From 1975-1978 he was director of the systems engineering program.

A native of Drumright, Okla., Thomas received his B.S., M.S. and Ph.D. degrees from Oklahoma State University.

Before coming to Clemson, he retired as a colonel from a 22-year career in the United States Air Force, which included a nine-month stint in Vietnam as fighter squadron operations officer. For four years before retirement he was deputy director of engineering for the Air Force B-1 program.

He was decorated with two silver stars; the distinguished flying cross, nine air medals, the meritorious service medal, and three Air Force commendation medals.

Thomas' major research since coming to Clemson has dealt with systems design for the Air Force. He is currently developing a unified database for Air Force systems design.

The search committee, appointed July 25, is made up of W. B. Barlage, Jr., professor and head of chemical engineering; D. J. Dumin, professor of electrical and computer engineering; T. T. Yang, professor of mechanical engineering; R. H. Brown, associate professor of civil engineering; L. G. Rich, professor of environmental systems engineering; and H. H. Ulbrich, professor of economics.

Acting Provost J. V. Reel says the committee will accept nominations for dean of the College of Engineering until Oct. 6, 1980, and will accept applications until Oct. 17, 1980. The position will be filled by early 1981.

COMMUNITY DEVELOPMENT MERGED WITH PRODUCTION-MARKETING ECONOMICS

Community Development and production-marketing economics Extension personnel in the Department of Agricultural Economics and Rural Sociology have been merged into a single specialist group effective July 1.

Extension Service Director Wayne O'Dell said the purpose of the merger is to strengthen the total Extension program in agricultural economics. The merged group will be called Extension Agricultural Economics.

Dan Smith will be the project leader.

Community Development will maintain its status as a separate program area. In addition to his responsibility as agricultural program leader, Lynn Harwell will also function as state leader for the Community Development program area. He will work closely with Smith and Community Development specialists Eddie Wynn and Mike Wise.

CLEMSON'S FLOWER DAY OFFERED BEAUTY, INFORMATION

Clemson's 70-acre Horticultural Gardens provided a backdrop in dazzling color Friday for over 1,000 visitors at Flower Day.

The event, co-sponsored by the Horticulture Department and the Garden Club of South Carolina, "offered the public a sample of what the garden clubs have given the state over the past half-century -- a lot of beauty as well as some useful information on growing things," says chairman Emory Jones.

Visitors were greeted by Clemson President Bill Atchley and Horticulture Department head T. L. Senn.

The focal point for Flower Day was the Variety Trials Garden, a three-acre plot of new and experimental lines of annual and perennial flowers which is supervised by horticulturist Alton Pertuit.

Over 300 varieties of flowers, some 16 varieties of lawn grasses, and demonstrations of dwarf and containerized vegetables for the urban dweller with limited space were among the top attractions.

In addition to tours, there were exhibits of flower arrangements and seven mini-lectures by members of the Clemson faculty.

The outdoor lectures ranged from techniques for growing indoor plants, hollies and azaleas to using insecticides. Professor Landon Miller discussed weed control in lawn grasses. David Bradshaw, horticulturist in charge of the gardens, lectured on variegated landscape plants, and landscape designer Gordon Halfacre gave tips on home lawn design.

The Gardens are located on a portion of the old John C. Calhoun Plantation. They were begun about 18 years ago as a teaching and research facility for the University and its S.C. Experiment Station.

Terraces once planted in cotton, corn and tobacco now furnish an ideal setting for camellias, azaleas and rhododendrons. An arboretum contains several hundred specimen plants and tree introductions.

As the gardens grew over the years, a Pioneer Complex -- including a Braille Trail for sight-handicapped visitors -- was built with log cabins, a grist mill and Colonial Garden.

Fern, wildflower and bog areas feature hundreds of species native to South Carolina. Another trail winds through a Meditation Garden.

The Horticultural Gardens are located south of campus just off Highway 76. They are open every day from 8 a.m. until dusk.

LOST AND FOUND SERVICE ESTABLISHED AT UNIVERSITY UNION

Beginning with fall semester, a campus-wide lost and found service will be coordinated and administered by the University Union Information Desk.

Items that are found may be mailed to the Information Desk through inter-office mail or large items may be reported during normal operating hours for a pick-up service. Articles may be claimed only during the following tentatively scheduled hours: 11 a.m. - 1 p.m., Monday, Wednesday and Friday; 6-8 p.m., Tuesday and Thursday.

The Athletic Department will continue to control all items lost and found at sporting events. The University Security Department will continue to handle bicycles and other large items.

All mailings should be addressed to Lost and Found, Information Desk, University Union.

If you have any questions or suggestions, please contact Ina Durham at the Information Desk, 656-2461.

BIOCHEMISTRY

G. L. Powell (Prof) gave a seminar, "Cardiolipin is Specifically Segregated within the Boundary Layer of Cytochrome c Oxidase," May 22 and conducted saturation transfer experiments at the National ESR Center, Medical College of Wisconsin, Milwaukee, WI, May 22-27.

M. B. Cable (former Grad Stu) and Prof. Powell presented a talk, "Spin Labeled Cardiolipin is Preferentially Segregated in the Boundary Layer of Cytochrome c Oxidase," at the joint meeting of the American Society of Biological Chemists and the Biophysics Society, New Orleans, LA, June 1-6.

Carolyn S. Brown (Asst Prof) and Cindy Putnam (Grad Stu) presented a paper, "Demonstration on Monoamine Oxidase Activity in B₁₆C₃ Murine Melanoma Cells," at the ASBC/BS Meetings in New Orleans, LA, June 1-5.

Prof. Powell was an invited speaker and resource person June 19 for ALPHA (summer program for gifted high school students in Oconee County) directed by Mrs. Ann Cooper. Prof. Powell provided information and discussion concerning the likely benefits and problems introduced by genetic engineering and other new areas of biology.

CHEMISTRY AND GEOLOGY

Joe F. Allen (Prof), Muriel B. Bishop (Prof) and Carl B. Bishop (Assoc Prof) attended the Biennial Conference on Chemical Education held at Rochester Institute of Technology at the National Technical Institute for the Deaf June 22-26. They also attended the Technologically Assisted Education Workshops on Computer Assisted Instruction at Clarkson College, Potsdam, NY, June 28-29.

Prof. Allen was an invited speaker at the "Symposium on Audio Visual Techniques

in Chemical Education" at the Tenth North-East Regional Meeting, Potsdam, NY, June 30-July 3. He spoke on "Development of Audio-Tutorial Programs in Chemistry."

CIVIL ENGINEERING

Subhash C. Anand (Prof) has been selected by the Council for International Exchange of Scholars, Washington, DC, to teach a six-week accelerated graduate short course, "Finite Element Methods in Structural Engineering," at the University of the Republic, Montevideo, Uruguay, under the Fulbright-Hays Lectureship Program. Prof. Anand will be in Montevideo, Uruguay, Aug. 2 - Sept. 14.

ENGLISH

John Idol (Assoc Prof) reviewed John Becker's Hawthorne's Historical Allegory, Michael Bell's Hawthorne and the Historical Romance of New England, and Neal F. Doubleday's Hawthorne's Early Tales for the Nathaniel Hawthorne Journal -- 1977. He also published "Nathaniel Hawthorne and Thomas Wolfe" in the Hawthorne Society Newsletter, 66 (Spring 1980), 6-7, and published "Burton's Illustrative Use of Emblems" in Renaissance Papers, 1979 (Summer 1980), 19-28.

Roger Rollin's "Beowulf to Batman: The Epic Hero and Pop Culture," originally published in College English, 31 (February 1970), 3, has been reprinted in Harold Schechter and Jonna Gormely Semeiks' Patterns in Popular Culture: A Sourcebook for Writers (New York: Harper and Row, 1980).

Three members of the English faculty contributed to the South Carolina Review, 12 (Spring 1980): Hallman Bryant (Assoc Prof) reviewed A. Dwight Culler's The Poetry of Tennyson and Philip Henderson's Tennyson: Poet and Prophet, pp. 56-60. Frank Day (Assoc Prof) reviewed Kenneth Hopkins' Gamel and Rex, p. 63. Prof. Idol reviewed Carole Klein's Aline and Scott Berg's Max Perkins: Editor of Genius, pp. 60-61.

M. Thomas Inge (Prof and Hd) read a paper on "Jesse Stuart and His Literary Tradition" at the seminar sponsored by the Jesse Stuart Foundation in Greenup, Ken., May 22-25. The Foundation will publish the essay. Prof. Inge's most recent publications include Bartleby the Inscrutable: A Collection of Commentary on Melville's Tale (Hamden, Conn.: Archon Books) and volume 2 of the Handbook of American Popular Culture (Westport, Conn.: Greenwood Press).

EXTENSION HOME ECONOMICS

Emily S. Wiggins (Family Life and Child Development Specialist with the Clemson University Cooperative Extension Service) was elected by the 24 other South Carolina White House Conference Delegates to represent them on the National Task Force in Washington in August. At that time findings resulting from the three regional conferences will be combined and recommendations made to the U.S. Congress, President Carter, and other appropriate groups.

LANGUAGES

Gaston J. Fernandez (Prof, Span) participated as reactor to the topic "Being Bilingual Not Enough: Teacher Preparation and Certification" at the Southeast Conference on the Education of Hispanics held in Miami, Fla., May 8-9, and sponsored by the United States Department of Education.

MATHEMATICAL SCIENCES

R. M. Kauffman (Adj Prof) has had a paper printed in the Proceedings of the London Mathematical Society Third Series, Vol. XL, pp. 477-506, May 1980. The paper is entitled "A Spectral Decomposition Theorem and its Application to Higher-order Non-self-adjoint Differential Operators in $L_2[\alpha, \infty]$."

Robert E. Jamison (Assoc Prof) attended the Karcher Conference on Convexity and Related Combinatorics held March 13-15

at the University of Oklahoma at Norman and presented a paper, "Varieties of Alignments: A Classification Scheme for Abstract Convexity."

T. G. Proctor (Prof) was chairman of a meeting of the SIAM Education Committee June 5 in Alexandria, Va. The primary business of this meeting consisted of planning for the publication of careers information for students with a degree in the applied mathematical sciences. Proctor was also a participant in a meeting of the MAA/SIAM Committee on Applications in the Curriculum Meeting June 6 in Alexandria.

C. Bradley Russell (Assoc Prof) has written a paper, "Sampling for Confidence Interval Estimation of the Fiber Shape Factor," to be published in the ASME Transactions and presented at the 1980 Textile Industries Conference in Atlanta Oct. 7 and 8.

Robert E. Fennell (Assoc Prof) has received a grant from NASA with a direct cost amount of \$23,006 for his project, "Integrated Controls Concept," through September 1981.

Prof. Jamison has been awarded a grant by NSF in the amount of \$19,898 through November 1982. His proposal is entitled "Geometry of Stable Convex Sets and Semilattices."

Herman F. Senter (Asst Prof) has been funded by USDA for a grant project, "Assessment of Private Sector Outdoor Recreation Supply," through May 1981 in the amount of \$7,244.

PHYSICS AND ASTRONOMY

John R. Ray has recently published a paper, "Neutrinos in Cosmological Models," in Progress in Theoretical Physics, Vol. 63, page 1213, 1980. This research was supported in part by a Department of Physics and Astronomy Summer Research Grant.

John P. McKelvey (Prof and Hd) has recently published a paper, "A Density of

States-Frequency Theorem for General One-Dimensional Oscillator Systems," in American Journal of Physics, Vol. 48, page 458, 1980.

POULTRY SCIENCE

K. A. Holleman (Prof) represented the Clemson University Chapter of Gamma Sigma Delta at the annual meeting in Gainesville, Fla., June 1-3. He was named president-elect by delegates of the international agricultural honor society and will serve in that capacity for two years prior to serving as president for two years.

PROFESSIONAL DEVELOPMENT

Thomas W. Zimmerer (Prof, IM) is a seminar leader for a course, "Improving Managerial Skills of Textile Supervisors," to be held Aug. 19-20 on campus.

J. Michael McDonald (Assoc Prof, IM) is a lecturer for a seminar, "Effective Time Management," to be held Aug. 19 on campus. He is also chairperson for a two-day seminar, "Improving Customer Service," to be held at the Ramada Inn in Greenville Aug. 27-28.

Claude S. Simpson Jr. (Instr, IM and Asst Dir, PD) is chairperson for the following seminars: 1) "Telephone Effectiveness," to be held Aug. 20 in Charlotte, NC, and Aug. 21 at Clemson; 2) "Manager II: Beyond the Basics," to be held Aug. 26-27 at Clemson.

Hassan M. Behery (Assoc Prof, Text) is chairperson for a conference, "Upholstery: From Start to Finish," to be held Aug. 20-21 at Clemson.

William C. Whitten Jr. (Prof, Econ) is chairperson for a two-day seminar, "Corporate Cash Management," to be held Aug. 27-28 at the Ramada Inn in Greenville.

RECREATION AND PARK ADMINISTRATION

G. Wesley Burnett (Asst Prof) has published with David G. Conklin (Parks Manager, Miles City, Montana) "The Bones of

Purgatory," Montana Outdoors 11 (5): 24-26; and with Ron Aasheim (Montana Dept of Fish, Wildlife and Parks) "Some Observations Concerning Recreational Use of Snowmobiles in Montana, Winter 1977," Winter Recreation Management 1 (1): 61-74.

ZOOLOGY

Darrell G. Yardley (Asst Prof) attended and presented a paper at the annual meeting for the Society for the Study of Evolution held June 29-July 2 at the University of Arizona in Tucson, Ariz. His paper was entitled "The Biochemistry of the Amylases of Drosophila pseudoobscura, D. persimilis and D. miranda."

Calendar of Campus Events

AUGUST

- 15 Orientation for new faculty and staff, P&AS Auditorium, 7:45 a.m.
- 17 Residence halls open at 10 a.m.
- 17-24 Sorority Rush. Sponsored by Panhellenic Council, call 656-2153 for more information.
- 18-24 Videotape: "Steve Martin." Sponsored by University Union, loggia, shown on request.
- 18-9/5 Sign up for bowling league, Union Information Desk, 8 a.m. - 4:30 p.m.
- 18 Game rooms open, University Union.
- 18 General faculty and staff meeting, Littlejohn Coliseum, 10:30 a.m.
Individual college orientations will be held before and after the meeting.
- 20 Outdoor Dance: Music by Windjammer. Sponsored by University Union, Union Plaza, 8 p.m.
- 20 Registration for fall semester 1980.
- 21 Outdoor Movie: "Billy Jack." Sponsored by University Union, Union Plaza, 9 p.m.
- 21 Comedy Show: Fun and games by "Playfair." Sponsored by University Union, loggia, 2 p.m., no admission charge.
- 21-22 President's Reception, President's Home, 7:30 - 10 p.m. each night.
(21) Agricultural Sciences, Education, Engineering, Nursing, Library, Undergraduate Studies, Graduate Studies, and Business and Finance.
(22) Architecture, Forest and Recreation Resources, Industrial Management and Textile Science, Liberal Arts, Sciences, Student Affairs, Development, and Communications.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 22 College Bowl exhibition match between faculty and students. Sponsored by University Union, loggia, noon.
- 22-23 Musical Performance: "Pretty Good for Girls." Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required. \$1 admission charge.
- 22-24 Workshop: "Wellness Workshop and Retreat." Sponsored by College of Nursing, Department of Continuing Education. Open to registered nurses and other health care professionals with at least a baccalaureate degree. \$100 registration fee. Call 656-3078 for more information.
- 22 Classes begin on regular schedule.
- 23 Free Concert: John Hammond. Sponsored by University Union, East Bank, 2-6 p.m. University I.D. and proof of age required.
- 24-25 Auditions: Ah, Wilderness! by Eugene O'Neill. Clemson Players' production, Daniel Auditorium, 7:30 p.m. Open to all students.
- 24 Free Flick: "The Goodbye Girl." Sponsored by University Union, YMCA Theater, 8 p.m.
- 24 Tubing trip down the Chatooga. Details and sign up at Union Information Desk.
- 25-31 Videotape: "Meatloaf and Journey." Sponsored by University Union, loggia, shown on request.
- 25 Clemson University Union Travel Center opens.
- 25 Sign up for University Union spring break cruise beginning today at the Union Information Desk.
- 25-26 Gallery Display: Slides of last spring break cruise. Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 26 Mime Show. Sponsored by University Union, Union Plaza, noon.
- 26 Pool Tournament. Sponsored by University Union, Game Room, 8 p.m.
- 27 Placement orientation for seniors and graduate students in the College of Architecture. Sponsored by Placement Office, 100 Lee Hall, 4 p.m.
- 27-29 Art Exhibition: "Short Course Art Display." Sponsored by University Union, Union Gallery, 8 a.m. - 5 p.m. Open to the public, no admission charge.
- 27 Dedication of Alumni Video Theatre. President Atchley will officially dedicate the University Union's new video theatre donated by the Alumni Association, loggia, noon.

CALENDAR OF CAMPUS EVENTS (Cont.)

- 27 Disco Roller Skating Party. Sponsored by University Union, Palmetto Room of Union, 8 p.m. - midnight. University I.D. required, skates provided for students.
- 28 Musical Performance: Elaine Silver. Sponsored by University Union, Gutter Coffeehouse, 8 p.m. University I.D. required, 50¢ donation. She will also appear at noon in the Union Plaza.
- 28-29 Art Exhibition: "Stained Glass Exhibition and Sale." Sponsored by University Union, Union Gallery, 11 a.m. - 2 p.m. Open to the public, no admission charge.
- 29-30 Musical Performance: Dick Child's Guitar Army. Sponsored by University Union, Edgar's, 9 p.m. University I.D. and proof of age required. \$1 admission charge.
- 30 Trip to Sliding Rock. Details and sign up at Union Information Desk.
- 31 Free Flick: "Walking Tall." Sponsored by University Union, YMCA Theater, 8 p.m.
- A

